SR 520 Pontoon Construction
Design-Build Project

Environmental Compliance Plan
Volume II

Appendix C
Spill Prevention, Control, and Countermeasures Plan

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Prepared For:

Washington State Department of Transportation

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Revision 6

Released for Construction

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Spill Prevention, Control, and Countermeasures Plan Implementation Requirements

Washington State Department of Transportation (WSDOT) General Special Provision 071501.FR1 and Section 2.8.3.2.3.2.2 of the WSDOT RFP (WSDOT 2009) require a Spill Prevention, Control, and Countermeasures Plan (SPCCP) to be developed for each WSDOT project. The purpose of an SPCCP is to protect human health and the environment from spills and releases of "hazardous materials," a generic term WSDOT uses in Chapter 447 of its Environmental Procedures Manual to mean dangerous waste, problem waste, petroleum products, and hazardous substances (WSDOT 2008).

Kiewit-General, A Joint Venture (Kiewit-General), the Prime Contractor for the SR 520 Pontoon Construction Design-Build Project (Project), has developed this SPCCP to satisfy Section 2.8.3.2.3.2 of the RFP (WSDOT 2009).

Kiewit-General will use this SPCCP for the duration of the Project and will update the SPCCP throughout project construction so that the SPCCP reflects actual site conditions and practices. At a minimum, Kiewit-General will update this SPCCP annually. Kiewit-General will maintain an updated copy of this SPCCP on the project site and all project employees will have immediate access to this SPCCP.

Before proceeding with this SPCCP, it is important to note that this is not a "stand-alone" plan and that the site's environmental management personnel must reference several other interrelated environmental plans in order to successfully implement all required compliance efforts. While this plan is provided as an appendix to this site's Environmental Compliance Plan (ECP), it is also identified as one of four distinct plans that comprise the "Site Management Plan", as defined by the SGGP condition S.5. Per this permit condition, the Site Management Plan (SMP) must include the following plans:

- Erosion And Sediment Control Plan
- Water Quality Monitoring Plan
- Stormwater Pollution Prevention Plan
- Spill Control Plan

All of the above listed plans are included as appendices to this site's Environmental Compliance Plan (ECP).

Introduction

The SPCCP is part of the Site Management Plan (SMP) as defined by the site's NPDES Sand and Gravel General Permit (SGGP) permit condition S5, and provides a strategy for preventing the release or spill of potentially hazardous materials, and for containing and responding to accidental spills or previously unidentified hazardous wastes on the project site. The SPCCP is prepared in accordance with WSDOT's Highway Runoff Manual. Elements of the plan include identification of spill sources, proper storage and handling of hazardous materials and fuels, identification of fueling areas, containment measures when working with hazardous materials, emergency procedures, and notification and reporting procedures. Site security, training of personnel, and periodic inspection are also addressed in the plan.

A copy of the SPCCP will be maintained on the job site. The Construction Manager and the Kiewit-General Environmental Compliance Manager (ECM) will be responsible for ensuring that the SPCCP is implemented and updated. The SPCCP will be updated throughout project construction so that the written SPCCP reflects actual conditions and practices at the site and complies with all permit requirements and environmental commitments.

Spill Prevention, Control, and Countermeasures Plan Elements

1.0 Responsible Personnel

Kiewit-General is the primary entity in charge of the SPCCP and of coordinating the spill prevention and response on the site. Personnel, their assigned responsibilities, and their corresponding contact information are listed in Table 1 of the Environmental Compliance Plan (ECP). The batch plant operators (CalPortland) are responsible for spills within the batch plant boundaries or spills of hazardous materials under the control of batch plant personnel, such as a spill related to concrete delivery or concrete trucks. Kiewit-General will maintain an oversight and compliance assurance role for prevention and cleanup of batch plant spills

2.0 Spill Reporting

All agency reportable spills or encounters of unanticipated hazardous materials are to be reported to WSDOT and the ECM, Project Manager, and Kiewit-General's District

Environmental Manager. Internal spill reporting will follow protocol as described in Figure 1A of this plan. External agency notifications must be made by the designated person, as outlined in Figure 1B. Kiewit-General will be responsible for reporting spills that occur at the batch plant. Regulatory Agency contacts are listed in Table 2 for specific incident types.

3.0 Project and Site Information

3.A The Project Work

The purpose of the Project is to construct longitudinal, cross, and supplemental stability pontoons that can be put into operation should the existing SR 520 Bridge need emergency replacement. These pontoons will accommodate the infrastructure for a 4-lane replacement of the SR 520 Bridge and be compatible with the planned 6-lane expansion and potential future 6-lane plus high-capacity transit (HCT) floating bridge. The Project involves several components as presented in Figure 2 and includes the following:

- Site investigation.
- Offsite roadway and railroad crossing improvements in the vicinity of the Aberdeen Log Yard site (now the pontoon casting facility).
- Design and construction of the pontoon casting facility at the Aberdeen Log Yard site.
- Design and construction of longitudinal, cross, and supplemental pontoons.
- Launching of completed pontoons and towing to a temporary moorage location.
- Site mothballing.

For the purposes of this SPCCP, the Project has been divided into three phases:

(1) construction of the casting basin
(2) pontoon fabrication, and
(3) site mothballing.

Casting Basin Construction

The work during the casting basin construction phase broadly includes the following major elements:

- Roadway widening, signing, striping, and channelization.

- Rebuilding the existing railroad crossing.
- Site development at the Aberdeen Log Yard site including:
  - Electrical power and lighting construction
  - Sanitary sewer and water construction
  - Storm water holding and settling pond construction
  - Process water pond construction
  - Temporary and permanent dewatering construction
  - Concrete batch plant construction
  - Shipping and receiving warehouse construction
  - Office building and associated parking lot construction
  - Pre-cast casting yard construction
- Casting basin design and construction including:
  - Casting basin excavation
  - Side slope construction
  - Sill and jamb construction
  - Gate construction
  - Bulkhead wall construction
  - Casting basin pile-supported slab construction
  - Hydraulic control structure construction
  - Fish exclusion and handling construction
  - Crane beam construction
- Launch channel construction including:
  - Launch channel dolphin construction
  - Turning dolphin construction
  - Launch channel construction

Pontoon Fabrication and Float-out

The work during the pontoon fabrication phase broadly includes the following major elements:

- Pontoon Fabrication
- Pontoon Float-out

Pontoon fabrication is a unique aspect of this WSDOT project, more closely related to ongoing operations at an industrial facility. Generally, up to six pontoons will be constructed at one time in the dry within the casting basin itself. The pontoons are constructed out of concrete and reinforced steel.

Once the pontoons are constructed, the casting basin is flooded. As the level of water reaches sea level outside the casting basin, the gate is removed. Tug boats are used to carefully remove each pontoon in sequence. The opportunity for spills during casting basin filling, float-out, and temporary moorage is small. However, all reasonable means will be used to minimize the chance of spills. Following float-out, the pontoons will be moved for temporary moorage at the Port of Grays Harbor Terminals for inspection and outfitting, then potentially moored in Grays Harbor until needed.

Site Mothballing

Upon completion and float-out of the final cycle of pontoons, the site will be shut down and mothballed. The site will then transfer to WSDOT for control and maintenance. The National Pollutant Discharge Elimination System (NPDES) Sand and Gravel General Permit will transfer to WSDOT control. It will then be WSDOT's responsibility to maintain any remaining spill control measures and meet applicable spill reporting and permit requirements.

3.B The Site Location and Boundaries

This concrete fabrication facility was built on the former Aberdeen Log Yard site in Aberdeen, Washington. The project vicinity map is provided as Figure 3. The only exceptions for work performed outside of the Impact Area Line are for off-site roadway work that was completed on East Terminal Way, and K-G's work at the leased two acre parcel at the City of Aberdeen WWTP.

3.C The Drainage Pathways from the Site

The topography is relatively flat and all storm water from the project site flows to Grays Harbor via perimeter ditches or through direct discharges from the constructed casting basin. The casting basin will be drained following each pontoon float-out through new direct discharge pipes that outlet to the launch channel. Site drainage pathways are illustrated in Figure 4.

3.D Nearby Waterways and Sensitive Areas and the Distances from the Site

The site is not located within an aquifer recharge area or sole source aquifer recharge area. The vicinity of the site is industrial with no sensitive human population centers. All receiving surface waterways are immediately adjacent to the site and limited to Grays Harbor, the west perimeter ditch that discharges to Grays Harbor, the east perimeter ditch that also discharges to Grays Harbor., and the northern bioswale that discharges to a jurisdictional ditch and eventually connects to the west ditch.

Grays Harbor borders the project site to the south, and the western perimeter ditch borders the western property boundary. WSDOT has identified palustrine wetlands and Special Aquatic Sites within the limits of the site. A survey, conducted by WSDOT in September 2009, indicated that there is no eelgrass, kelp, or significant macro algae habitats present within the Impact Area Line at the site (ICF Jones & Stokes 2009).

The entire site will be used to construct, operate, and maintain the casting basin facility. Impacts to the tidally-influenced west perimeter ditch will only be temporary and limited to outfall reconstruction and removal of flow-restricting weirs, and to the east ditch by temporary installation of a construction access roadway across the ditch from the pontoon project to the City of Aberdeen WWTP parcel. In addition, a truck access entrance and pipe protection slab was installed to span the existing culvert and entrance on the west side of the project. No work will be done in the ditch in order to install the slab. The only sensitive shoreline areas permanently impacted by the Project are directly in front to the gate.

4.0 Potential Spill Sources

A description of each potentially hazardous material brought onto the site or generated onsite (including materials used for equipment operation, refueling, maintenance, or cleaning) is found in Table 3. Additional items brought onsite will be listed accordingly in the Additional Items Brought Onsite Log (Attachment C).
The material safety data sheet (MSDS) for each material can be found on the following website, by entering the username and password provided here:

Website: www.msdsonline.com
Username: 520pontoons
Password: 520pontoons

To ensure compliance with employees' Right-To-Know regulations, the above information is posted and visible around the facility.

Activities with Potentially Hazardous Materials

There are a number of hazardous materials used for construction of the pontoon casting facility and production of the pontoons. The hazardous materials found in the highest volumes during construction are diesel fuel, hydraulic oil, concrete and its associated process water, and chemicals used to treat the process water. The following sections discuss fueling and maintenance, concrete operations, and water treatment.

4.A Fueling and Maintenance

Gasoline

Gasoline is used on site for hand-held power tools, portable pumps, and generators. Gasoline is obtained off-site, and placed in 5-gallon flammable red safety cans. These gas cans are stored in Flammable Cabinets around the work areas. When gas cans are staged near the work area, they are placed in secondary containment. Dispensing gasoline into the power tools is done carefully, using a funnel to avoid spillage.

Diesel Fuel

Diesel fuel is necessary for fueling excavating equipment, cranes, on- and off-road trucks, passenger trucks, and other heavy equipment normally associated with the construction project. Fueling procedures for land-based and water-based equipment are detailed in Attachment E.

This Project will have a mobile refueling truck and only minor amounts of fuel will be stored onsite. A site layout for the lube farm is provided in Figure 6.

Diesel fuel will also be used for marine operations during dredging and pontoon float-out during production. Refueling procedures for dredging equipment are discussed further below, and strictly follow U.S. Coast Guard procedures. The large marine tugs used to float out the pontoons will refuel at their moorage locations. These vessels have very large fuel tanks and generally do not require refueling for extended periods of time.

Hydraulic Oil

Hydraulic oil is commonly used in equipment such as shovels, booms, crane cables, and turrets. Hydraulic oil will be stored throughout construction and production of the pontoons.

Construction Equipment

This facility houses and utilizes a variety of construction equipment and vehicles. There are four tower cranes, several large-tracked mobile cranes, several concrete trucks, delivery trucks from off-site, forklifts, dozens of work vehicles, gas-operated portable pumps, diesel pumps, air compressors, a lube and fuel truck, a mechanics truck, plus other small hand-held construction equipment. Each of these units can be a potential spill source for substances such as diesel, gasoline, hydraulic oils, and other equipment fluids.

4.B Concrete Operations and Water Treatment

Very large quantities of concrete will be used both during casting basin construction and during pontoon fabrication. Uncured or green concrete has a very high pH and can be damaging to the environment. The process water will be captured, treated, and discharged according to the NPDES Sand and Gravel General Permit.

A concrete batch plant has been constructed onsite. The batch plant will manage its own process water treatment prior to using a hydrochloric acid treatment system discharge. The batch plant site layout is provided in Figure 7. Although overall site-wide compliance is the responsibility of Kiewit-General, CalPortland is responsible for all hazardous materials under the control of batch plant personnel (including concrete trucking operations) and within the boundaries of the batch plant area. The risks of spill associated with the hazardous materials at the batch plant are specific to the batch plant area and its personnel. The Spill Control Procedures specific to the batch plant operations is provided as Attachment F. This separate document allows CalPortland to develop plans familiar to batch plant personnel that they are more likely to adhere to. The CalPortland procedures are consistent with, but subservient to, this SPCCP.

In addition to the batch plant process water treatment system, a site-wide system, including lined process water treatment ponds, has been constructed to treat high pH process water associated with pontoon fabrication. This treatment system requires the use of an inline sulfuric acid treatment system to neutralize pH. Totes of sulfuric acid are brought on site for use by this treatment system, and are typically staged inside the pH Treatment Connex, which is located east of Pond 1. The location of this pH Treatment Connex is marked on Figure 2 of this SPCCP. The connex can hold up to (2) two totes of 500 gallons each, which are placed inside a secondary containment device.

5.0 Pre-Existing Contamination

Due to previous uses of the site as a lumber mill and log storage yard, soils with elevated concentrations of total petroleum hydrocarbons (TPH) and/or creosote material may be present at isolated locations. A Phase II Environmental Site Assessment and Groundwater Investigation completed within the Impact Area Line at the site identified some level of contamination. This report was included in Appendix E13 of the Request for Proposal.

To date, no underground storage tanks (USTs) have been identified at the site. If an unknown UST at the site is encountered, it shall be decommissioned and removed. All applicable rules and regulations associated with UST removal activities will be followed. Including but not limited to the following:

- Resource Conservation and Recovery Act (42 USC Sec. 6901, et. seq.)
- Underground Storage Tank Regulations (RCW 90.76, WAC 173-360-375)
- Model Toxics Control Act (RCW 70.105D, WAC 173-340-450)
- Hazardous Waste Management (RCW 70.105)
- Dangerous Waste Regulations (Chapter 173-303-WAC)

Unanticipated Discovery of Hazardous Waste or Impacted Soil

Hazardous or contaminated materials may be encountered during excavation. These materials include small areas of petroleum contamination. If unanticipated hazardous or contaminated wastes are discovered, Kiewit-General will immediately cease work and contact Kiewit-General's Environmental Compliance Manager (ECM). The ECM will then notify WSDOT and all appropriate and applicable regulatory agencies, including Ecology. The reporting flow chart for hazardous waste or impacted soil is included in Figure 1B of this SPCC plan. The area in which the hazardous waste, impacted soil, drums, or storage tank is found will be properly marked and secured with temporary fencing until the situation can be evaluated by the ECM. Refer to the Soil Management Plan for procedures in the event of discovery of hazardous waste or impacted soils during excavation (Appendix I of the Environmental Compliance Plan).

Any stockpiled soil or treated lumber that is potentially contaminated (noticeable odor or staining) will be contained with a berm composed of ecology blocks. Polyethylene plastic will also cover the stockpiled soil to prevent contaminated runoff at the site.

Contaminated soils removed from the site because of unanticipated discovery of existing contamination will be disposed of at an appropriate landfill or recycling facility. These procedures are detailed in the Soil Management Plan provided as Appendix I to this ECP. All hazardous waste manifests, bills of lading, and all other documentation required to transport and dispose of any excavated materials offsite will be prepared and provided to WSDOT. WSDOT will be designated as the generator and will sign all manifests.

6.0 Training for Spill Prevention and Spill Response

Kiewit-General employees and subcontractors, including refueling and maintenance contractors, will be trained on this site's basic spill prevention and mitigation best management practices (BMPs) prior to being allowed onsite to complete any level of work activity. Personnel will be trained on roles and responsibilities, emergency recognition, spill source and receptor recognition, spill prevention planning and techniques, spill response measures, and spill reporting protocol. Training will include information specific to each hazardous material listed in Table 3 (this list includes hydrochloric and sulfuric acid used for pH treatment on site).

7.0 Spill Prevention

7.A Spill Response Kit Contents and Location(s)

Appropriately-sized kits will be maintained in close proximity to hazardous materials and equipment and will be immediately accessible to all project employees (refer to Table 4). A site layout with spill kit locations is provided in Figure 8.

7.B Security Measures for Potential Spill Sources

Staging and decontamination areas for the project will be located in fenced areas or inaccessible areas. Only authorized personnel will be permitted into the work area. Master flow and drain valves associated with any onsite storage containers or systems will be securely locked in the closed position while not in operation. The portable lighting units onsite will be adequate to allow night work. Bulk storage of oil or fuel will be secured.

7.C Materials Storage, Fueling, and Maintenance

A temporary vehicle and equipment maintenance facility has been constructed onsite for construction equipment requiring maintenance. Movable heavy equipment and some smaller portable equipment will be stored at this maintenance facility. A site map of this area is included in Figure 5. All repairs and routine maintenance will be performed in this area. This facility is contained within a bermed area of either a concrete or asphalt

surface and graded such that all water will drain to a single underground sump with an oil-water separator. The sump will be maintained by a vendor, who will also clean out and truck its contents offsite. Shop cloths, drain pans, and spill pads will be used during routine maintenance of equipment to prevent spills. A spill response kit will be located within this maintenance/refueling area. The maintenance/refueling area will be paved with a relatively flat topography. All bulk chemicals or fuels associated with equipment maintenance will be stored within the Lube Farm until needed. Additional chemical storage for water treatment systems will be required near the North Pond and within the batch plant area. All liquid chemical storage will include adequate secondary containment and cover.

The concrete batch plant will use a truck wash system that collects and contains high pH wash water and transports it to the batch plant process water treatment system. Parked concrete trucks will either be parked on a containment surface or diapered. The trucks and equipment will be inspected daily and fueled with appropriate spill protection measures.

Storing of hazardous chemicals in proper facilities and clearly marked containers is a very important aspect of not only employee safety but environmental safety as well. Proper storage and marking of containers lessens the likelihood of an accident and provides organization of these materials on the job site. Oily rags or other sources of possible combustion will be stored using properly marked containers away from any source of heat or ignition.

Refueling of small, portable equipment and heavy equipment will usually be accomplished with the lube truck and likely will take place away from the above-mentioned maintenance/refueling area. Efforts will be made to conduct refueling operations beyond 100 feet of State waters. Refueling of large moveable equipment will always be conducted at least 100 feet from State waters.

All equipment will be serviced by a certified fuel supplier or certified Kiewit-General employee. These providers and Kiewit-General employees will be trained as described in Section 6 of this SPCC Plan.

BMPs for Fueling and Maintenance Activities

The following BMPs will be used at all areas of the project site to prevent and contain spills. Kiewit-General refueling procedures are provided as Attachment E and include procedures for land-based as well as over-water fueling.

- Hazardous materials will be stored and/or transferred in the designated refueling/maintenance area as much as practicable. Large overhead cranes associated with basin construction and pontoon fabrication will be refueled and serviced at their location using a lube truck with appropriate secondary containment and spill prevention measures as provided in Attachment E.
- Nonhazardous or less hazardous materials will be substituted for hazardous materials whenever possible.
- Proper equipment, including pumps, funnels, and drain pans, will be used during hazardous material transfers, especially during refueling.
- Personnel will not “top off” containers.
- Incoming construction equipment will be checked for leaking hazardous materials (including oil and fuel) when they enter the pontoon fabrication facility, or daily if they are onsite for multiple days.
- Equipment and vehicles will be routinely inspected for leaks of hazardous materials (including fuel and oil).
- Necessary repairs to equipment and vehicles will be made immediately or as soon as possible.

- Refueling Operations Fuel storage tanks will all be double-walled and properly labeled.
- Fuel dispensing nozzles will be spill resistant
- Sorbent pads will be used to ensure no spills reach the ground during fueling operations
- Place secondary containment vessels under hose reels and protect from inclement weather.
- Stop all engines and turn off electrical equipment.
- Chock wheels on all rubber-tired equipment.
- Use funnels when required.
- Store all hazardous materials in flame cabinets with secondary containment.
- Close fuel tank vents, secure hoses, and make sure nozzles are drip dried prior to fly-over.
- Although refueling can be a one-person operation, two people are recommended with one person present and observing the operation at all times.

- Do not top off fuel tanks or other fuel storage vessels, leave sufficient head space.
- Avoid and/or minimize storage of hazardous materials on flexi-floats or take extra precautions to ensure that hazardous materials cannot be released to the water (e.g., additional containment).
- Fuel will be stored in secondary containment, not on the ground.
- Maintain spill kits at designated locations at all times for instant use if needed.
- Do not prop fuel nozzles open.
- Make sure gauges are working properly and accurately reflect the capacity of fuel tanks.
- Inspect hoses, fittings, and drip pans on all equipment.
- Wipe drips immediately.
- Hang nozzles up.
- Be prepared and refuel periodically. Do not refuel when in a rush.
- Third-party fuel suppliers must be insured and have a spill prevention and countermeasure plan.
- All guidelines apply to all subcontractors.
- Pay attention to surroundings; watch out for inclement weather.
- Use an absorbent pad around nozzles to catch splash-backs or drips. Clean up any spilled fuel with absorbent cloths.
- Maintain nozzle contact with the fill pipe.
- Do not use automatic stop devices. Do not chock nozzles open.
- Make sure nozzle is drip dried before it is removed from tank and hold nozzle upright to prevent fuel from dripping out of the nozzle.
- If fuel is spilled, instantly remove using an absorbent pad.
- When pouring from a portable tank, use a proper funnel or spout with matching capacity.
- Store fuel in an area that is protected from inclement weather and away from water's edge.
- Never use detergents or emulsifiers to deal with oil or fuel spills.
- Used oil absorbents should be disposed of properly at approved facilities.
- Always adhere to the Kiewit-General standard procedures for refueling operations provided in Attachment E.

Operating Equipment

- Chock wheels on all rubber-tired equipment.
- All equipment will be inspected daily for leaks, drips, or maintenance needs.
- Inspect equipment, read the gauges, and routinely look for leaks, spills or signs of trouble (vibrations, squeals, squeaks, noise, smoke, temperature, etc.).
- Keep an eye open for trouble.
- Take care of equipment and do not overload.
- Any equipment not deemed sufficiently serviceable or at risk of developing a hydraulic leak will be taken out of operation until such time it can be made operational without risking a significant hydraulic oil spill.
- Cranes operating on the work trestle will be outfitted with a diapering system that includes either a metal drip pan or a sorbent pad system underneath each crane to ensure that no drips, leaks, or spills reach the riprap slopes.

Servicing Equipment

- Follow the engine manufacturer's recommended maintenance schedule.
- If raining, perform work over a drop cloth and under cover.
- When servicing the engine, ensure that fuel, oil, and lubricants are immediately cleaned up.
- Do not store hoses or parts overhead or where they cannot be observed.
- Never use detergents or emulsifiers to deal with oil or fuel spills.

Secondary Containment Practices and Structures for Hazardous Materials

Most hazardous materials onsite are associated with heavy equipment lubrication, motive power, hydraulic power, and an onsite refueling tank. Heavy equipment will be stored onsite when not in operation. Storage locations will be selected to reduce the potential for accidents and to be as far from sensitive areas as reasonably possible.

All of the portable containers for liquid products and dangerous or hazardous wastes, including drums and smaller containers, will have secondary containment, such as double-walled construction or plastic spill pallets, or will be stored in structures engineered to provide secondary containment capable of preventing discharge to waters of the State. Drums and storage containers will be consolidated whenever

possible and stored in controlled material storage areas with restricted access. All drums and containers will be labeled accurately with their contents.

During operations, the onsite refueling area will be located in a convenient location away from sensitive areas and with appropriate secondary containment and spill kits. The refueling devices are modular and will contain fuel, oil, hydraulic fluid, and other lubricants. These devices are self-contained and meet all applicable regulations for modular refueling devices.

Sulfuric acid and hydrochloric acid used in treatment of high pH process water will be stored in secured totes within an enclosed secondary containment next to the pH neutralization control box. An appropriate spill kit will be located in the immediate area.

High pH storm water will be contained and managed in localized areas around the site where concrete casting, curing, and process water is generated during the construction of the casting basin facility. If necessary, high pH storm water will be collected and routed to a process water pond and water treatment pond where the water will be sampled and treated as needed for turbidity and pH. An appropriately sized spill kit is stored in the immediate area of the pond. The acid totes will be stored in secondary containment to minimize the potential for a spill to reach the ground or surface water. The storage system will be designed to minimize personnel exposure to acid. The totes will be securely closed and locked during facility off-hours.

Eco-Pans/large tubs will be used as necessary for excess concrete and concrete washwater, as will temporary washout stations during early construction activities. The Eco-Pans will be allowed to set up and the hardened concrete then removed for recycling. Hardened concrete in the Eco-Pans may also be taken to CalPortland's concrete pit for recycling, and any residual washwater in the pan can be treated using CalPortland's pH treatment system.

7.D Methods Used to Prevent Storm Water from Contacting Hazardous Materials

All hazardous materials will either be stored in a conex (or equivalent) container or the designated maintenance and fueling area. The maintenance and fueling area will be designed and constructed so that storm water will be directed away from the hazardous materials containment storage to prevent storm water from contacting hazardous materials.

All hazardous materials will be stored within maintenance vehicles, flammable storage cabinets, and/or secure areas to prevent any contact with storm water or waters of the State. Onsite upland refueling tank(s) will have all appropriate secondary containment. Marine refueling operations will follow the standardized procedures, which will prevent these materials from contacting storm water. Over-water refueling procedures are provided in Attachment E. These procedures include fueling procedures for portable equipment on floating platforms and fueling procedures for commercial watercraft.

7.E Site Inspection Procedures and Frequency

SPCC-specific inspections will be conducted regularly to ensure that spill controls are in place and remain effective. Inspections will be conducted by the Kiewit-General Environmental Compliance Lead (ECL) or a qualified designee experienced with operations inspection requirements. Weekly inspections of the fuel storage and maintenance area and dangerous/hazardous waste accumulation areas will be conducted and documented by the ECM, the ECL or a qualified designee. Inspection forms are included in Attachment G.

The SPCC-specific site inspections will verify:

- The location of the storage container.
- The integrity of the container.
- The integrity of the secondary containment (if required).
- Whether spill kit is readily available and adequately equipped.
- Any corrective actions that are required.

7.F Equipment and Structure Maintenance Practices

All equipment will be inspected for leaks at the beginning of each shift. Preventive equipment maintenance will be performed in accordance with the frequency recommended by the manufacturer. Preventative maintenance will be performed onsite during project construction and operations by Kiewit-General or its trained subcontractors. Equipment will be serviced in a designated covered service area. Large cranes will be serviced at their location, and marine equipment will be serviced offsite at the appropriate facilities. Batch plant operators will conduct daily inspections on all batch plant equipment, including concrete trucks. Only minor maintenance will be conducted onsite and within a contained area with appropriate spill prevention measures.

Hydraulic oil that may be used in equipment will be contained within closed systems on the equipment itself. In addition, extra hydraulic oil will be located onsite in secondary containment systems associated with the small maintenance and refueling site.

7.G Daily Inspection and Cleanup Procedures that Ensure All Equipment Used Below the Ordinary High Water Line is Free of All External Petroleum Based Products

During dredging operations and other “in-water” work activities, beginning-of-shift inspections will occur for all equipment. Equipment used over water will receive beginning- and end-of-shift inspections.

7.H Refueling Procedures for Equipment that Cannot Be Moved from Below the Ordinary High Water Line

Standard marine refueling will be used to refuel all over-water equipment. Over-water refueling procedures are provided in Attachment E. These procedures include fueling procedures for portable equipment on floating platforms and fueling procedures for commercial watercraft.

The risk of pollution increases significantly during refueling, operation, or servicing of portable equipment on floating platforms (e.g., flat deck barges, flexi-floats, derrick barges, pontoons, etc.). The measures provided in Attachment E are designed to eliminate, minimize, and mitigate the risk of a spill.

7.I Spill Mitigation Practices inside Casting Basin and the Pre-Flood Inspection

Spills of high pH materials within the casting basin are not a significant environmental concern as the basin itself is isolated from all sensitive areas, and the high pH water is pumped directly to the process water detention pond for treatment. All spills of materials within the basin will be cleaned up immediately. During day-to-day operations, oil booms are used to protect each drain inlet in the basin, so that any oil spill or floating debris that may occur on the basin is prevented from reaching the detention ponds.

As pontoons are completed and prepared for float-out, the basin will be cleared of all form work, construction materials, tools, equipment, and supplies. The basin and the pontoons themselves will be swept and cleaned with a minimal amount of water. A complete walk-through inspection will be completed by the ECM or designee to ensure that all deleterious materials have been removed to help prevent any of these materials from entering the harbor during float-out.

8.0 Spill Response

8.A Spills of Each Type of Hazardous Material at Each Location Identified in Section 4.0—Potential Spill Sources

Potential spill sources derived from heavy equipment include fuel, hydraulic fluid, coolant, and transmission fluid. Response procedures for each type of material identified in Section 4.0 and each spill source are detailed in Table 5. Spills should be responded to according to the following protocols:

Get Help

- Cease Operations.
- Notify the ECM or ECL.
- If the spill cannot be safely and effectively controlled, or if any injuries have occurred, call the Fire Department (911).
- The ECM will notify Kiewit-General's Project Manager, WSDOT's ECM Inspector, and WSDOT's Principal Engineer. At this point, WSDOT's ECM or Principal Engineer will trigger WSDOT's internal notification process.

Assess Hazard

- Assess the quantity of substance spilled.
- Assess the extent of the affected area.
- Determine the source of the spilled material.

Secure Spill Response and Personal Protective Equipment

- If the spill cannot be safely and effectively controlled, direct safe evacuation of the area and notify outside response services.
- If the spill can be safely and effectively controlled by Kiewit-General personnel, then secure the area and obtain appropriate spill response equipment and personal protective equipment.

Contain and Eliminate Spill Source

- Contain the spill with sandbags or mini-booms to prevent entry to catch basins, storm drains, or ditches that discharge into waters of the State.

- Seal or stop the source of the spill by closing valves, providing containment, or deactivating pumps.

Spill Cleanup and Mitigating Environmental Impact

Spills onto the Ground (Soil):

- Immediately clean up the spill.
- Apply absorbent material, berm, divert, or contain the spill.
- Collect spilled material and place into labeled drums.
- Collect absorbent and other material used to clean up the spill, label the container, and properly dispose of waste at an approved disposal facility.
- Report spill in accordance with WSDOT's Environmental Compliance Assurance Procedures by contacting WSDOT's Project Engineer and ECM.
- Decontaminate the affected area, equipment, and surfaces that have contacted the spilled material.

Spills into Waterways:

- Immediately clean up the spill.
- Clean up absorbent and waste materials and dispose of waste at an approved disposal facility.
- Decontaminate the affected area, equipment, and surfaces that have contacted the spilled material.
- Report spill in accordance with WSDOT's Environmental Compliance Assurance Procedures by contacting WSDOT's Project Engineer and ECM.

All spill residue, absorbents, contaminated soils/debris will be cleaned up and managed offsite at an appropriate permitted facility.

If a spill cannot be safely and effectively contained and controlled by Kiewit-General, a designated spill cleanup contractor will be contacted. Refer to Table 2 for contact information.

8.B Storm Water That Has Come into Contact with Hazardous Materials

Should storm water come into contact with hazardous materials, the area immediately down gradient shall be contained to prevent any further runoff of contaminated storm water. Materials that will be used to contain runoff include mini-booms. Response and reporting procedures will follow those given in the previous Section 8.A and detailed in Tables 5 and 6.

Materials used to contain contaminated storm water will be disposed of in a manner consistent with federal, state, and local regulations. Responders should refer to the MSDS for the specific hazardous material ((see Section 4 for MSDS access information). Applicable local, state, and federal requirements will be met for characterization, handling/management, and disposal methods.

All storm water ponds will have oil booms ready to deploy in order to help prevent any release of petroleum that may be collected within a storm water control pond.

8.C Release or Spill of Any Known Pre-existing Contamination and Contaminant Source Described in Section 5.0 —Pre-Existing Contamination

All contaminated soils will be handled in accordance with the Soil Management Plan, provided as Appendix I to the Environmental Compliance Plan. General procedures are provided herein as Table 7.

Appropriate handling and disposal procedures will be implemented based on the level of contamination detected. Contaminated soils will be placed in lined, sealed dump trucks and hauled to the disposal site. BMPs will be implemented to ensure that excavated contaminated soils will not spill, overflow, or be released during transport to the disposal site.

The handling, stockpiling, transport, and disposal of contaminated media will be conducted in accordance with state and federal regulations. The ECM or ECL will be responsible for the management of contaminated media and documentation for all material transported offsite.

Once loaded, trucks will immediately leave the site and will not stage. Trucks will depart per the haul route plan and travel directly to the disposal site. Truck haul routes for excavated soils to be disposed of at offsite upland disposal locations are provided in the project Offsite Road Plans.

Following excavation and any necessary waste characterization, Kiewit-General will follow proper disposal procedures by obtaining truck lading tags, waste manifest, and/or scale tickets. All hazardous waste manifests, bills of lading, and all other documentation required to transport and dispose of any excavated materials offsite will be prepared and provided to WSDOT. WSDOT will be designated as the generator and will sign all manifests.

8.D Release or Spill of Any Unknown Pre-Existing Contamination and Contaminant Sources (such as buried pipes or tanks) That May Be Unexpectedly Encountered During Project Work

All contaminated soils will be handled in accordance with the Soil Management Plan, provided as Appendix I to the Environmental Compliance Plan. General procedures described above in Section 8.C will be followed. These procedures are also provided in Table 8.

8.E Spill Occurring During Work with Equipment Used Below the Ordinary High Water Line

Spill responses occurring with equipment used below the ordinary high water line will follow the procedures outlined in Table 9.

Regulation 37 of Annex I of MARPOL requires that oil tankers of 150 tons gross tonnage or more and all ships of 400 tons gross tonnage or more carry an approved Shipboard Oil Pollution Plan (SOPEP). The International Convention on Oil Pollution Preparedness, Response and Co-operation, 1990, also requires such a plan for certain ships. The SOPEP outlines spill response activities for small spills to water from a vessel as well as activities required in the event of a major spill incident including vessel grounding or explosion. Because the most likely scenario is a small spill to water from an equipment malfunction such as leakage from pipes or tank overflows, the general activities required for such a spill are provided below. For operations involving large vessels that require an SOPEP, refer directly to that vessel's SOPEP. .

8.F Decontamination and Disposal Procedures

Immediately begin cleanup. Refer to the Soil Management Plan for details on decontamination and disposal procedures (Appendix I of the Environmental Compliance Plan).

Spills to Soil:

- Collect spilled material, absorbent, and other material used to clean up the spill and place into a secure, covered, and marked container. Properly dispose of waste at an approved facility.
- Decontaminate the affected area as well as equipment and surfaces that have contacted the spilled material.
- Restore site as necessary.
- Provide offsite facility disposal location and applicable permits to WSDOT in advance in accordance with WSDOT Standard Specification 2-03.3(7)C and RFP requirements.
- Provide bill of lading or chain-of-custody documents to WSDOT showing that the material was disposed of properly at an approved and permitted facility.
- Any hazardous waste generated from spills or during standard operations will be disposed of at an appropriate landfill or treatment of recycling facility. All hazardous waste manifests, bills of lading, and all other documentation required to transport and dispose of any excavated materials offsite will be prepared and copies provided to WSDOT.

Spills to Water:

Water includes but is not limited to storm water leaving the site, catch basins, and ditches on the project site.

- Clean up absorbent and waste materials and dispose of waste at an approved disposal facility.
- Decontaminate the affected areas, equipment, and surfaces that have contacted spilled material.

9.0 Project Site Map

Project site maps containing the following information are provided in Figures 2, 4, 5, and 8:

- Site location and boundaries.
- Site access roads.
- Drainage pathways from the site.
- Nearby waterways and sensitive areas.

- Locations of work where hazardous materials, equipment, and decontamination areas identified in Section 4.0 Potential Spill Sources will be located.
- Locations of equipment with the potential to release hazardous materials.
- Locations of spill prevention and response equipment in areas of work as described in Section 7.0 Spill Prevention and Section 8.0 Spill Response.

10.0 Spill Report Form

Spills shall be documented by the ECM. The Spill Report Form is included in Attachment H.

10.A Management Approval

This SPCCP is supported by management of Kiewit-General who has the authority to commit the necessary resources, including labor, equipment, and materials, to expeditiously control and remove any harmful quantity of hazardous materials spilled or released to the waters or land of Washington State.

Signature: Dustin Donahoo

Name and Title: DUSTIN DONAHOO, PM

Date: 11/26/14

11.0 References

ICF Jones & Stokes. 2009. *Grays Harbor / Macroalgae Survey Report for the Aberdeen Log Yard Site, Aberdeen & Middleton Site, and Site 3 Moorage*. Prepared for Washington State Department of Transportation. Seattle, Washington. December.

Washington State Department of Transportation (WSDOT). 2009. *SR 520 Pontoon Construction Design-Build Project. Request for Proposal*. Olympia, Washington.

Washington State Department of Transportation (WSDOT). 2008. *Environmental Procedures Manual*. M 31-11.05. Environmental and Engineering Environmental Services. Olympia, Washington. October.

Tables

Table 1. Spill Prevention, Control, and Countermeasures Plan Contacts

Title	Name	Phone Number
K-G's Environmental Compliance Manager	Norma Hernandez	Office: (360) 500-4389 Cell: (602) 516-3817
K-G's Environmental Compliance Lead	Riley Vannoy	Office: (360) 500-4408 Cell: (360) 591-4796
K-G's Environmental Compliance Lead	Bobbi Weinman	Project Radio Channel 5
K-G's Environmental Compliance Lead	Bobbi Doyle	Project Radio Channel 5
WSDOT Principal Engineer	Dave Ziegler	Office: (360) 500-4421 Cell: (360) 259-9509
WSDOT Environmental Compliance Manager	Dave Davies	Office: (360) 500-4427 Cell: (253) 310-1562

Table 2. Federal, State, and Local Agencies to be Notified in the Event of a Spill

Incident	Emergency Contact/Agency	Contact Number
Spill to Water	1. USEPA National Response line	1-800-424-8802
	2. U.S. Coast Guard, Seattle WA	1-206-217-6002
	3. Ecology Southwest Regional Office	1-360-407-6300 1-800-OILS-911
	4. USEPA Region 10, Emergency Response Line	1-206-553-1263
	5. Property Owner – WSDOT (Dave Ziegler)	Office: (360) 500-4421 Cell: (360) 259-9509
	6. Ecology Federal Permit Manager (Penny Kelley)	(360) 407-7298
Land-Based Spill	1. USEPA National Response line	1-800-424-8802
	2. Ecology Southwest Regional Office	1-360-407-6300 1-800-OILS-911
	3. USEPA Region 10, Emergency Response Line	1-206-553-1263
	4. Aberdeen Fire Department	911
	5. Property Owner—WSDOT (Dave Ziegler)	Office: (360) 500-4421 Cell: (360) 259-9509
Underground Storage Tank	Ecology Southwest Regional Office	1-360-407-6300
Environmental Cleanup Specialists		
Water-Based Spill	NRC Environmental Services 24-hour Emergency Response	1-206-546-7150 1-800-337-7455
	Global Diving and Salvage, Inc.	1-206-623-0621
Land-Based Spill	Oil Re-Refining Company (previously Apex Environmental)	1-360-532-3590
	Cowlitz Clean Sweep	1-888-423-6316
	Best Parking Lot Cleaners	1-253-841-7406

Abbreviations:

Ecology	Washington State Department of Ecology
USEPA	United States Environmental Protection Agency
WSDOT	Washington State Department of Transportation

Table 3. Hazardous Materials Brought or Generated Onsite

Material	Intended Use	Estimated Quantity	Location(s)	Decontamination Location	Disposal Procedures
Gasoline	Fuel	800 gallons (not including delivery trucks or personal vehicles)	Work trucks, small pumps or generators, hand-held tools such as chain saws, power washers, and power drills. These tools are used throughout the site, and inside the casting basin. Gasoline is typically contained in 5-gallon cans stored in flammable cabinets around the site.	Maintenance Shop or Equipment Wash Station	Authorized vendor
Diesel	Fuel	3,000 gallons	Forklifts, Lube Truck Generators, Pumps Maintenance Shop storage	Maintenance Shop or Equipment Wash Station	Authorized vendor
Engine Oil (and used oil accumulated for recycling off-site)	Engine lubrication	1,000 gallons	Forklifts, Lube Truck Generators, Pumps Excavation Equipment Maintenance Shop storage	Maintenance Shop or Equipment Wash Station	Authorized vendor
Hydraulic Fluid	Hydraulic powering of heavy equipment	300 gallons	Forklifts, Lube Truck Excavation Equipment Maintenance Shop storage	Maintenance Shop or Equipment Wash Station	Authorized vendor
Coolant	Preventing overheating and freezing	200 gallons	Forklifts, Lube Truck Generators, pumps Excavation Equipment Maintenance Shop storage	Maintenance Shop or Equipment Wash Station	Authorized vendor
Transmission Fluid	Equipment transmission lubrication	500 gallons	Tower Cranes, Lube Truck, Generators Excavation Equipment Maintenance Shop storage	Maintenance Shop or Equipment Wash Station	Authorized vendor

Material	Intended Use	Estimated Quantity	Location(s)	Decontamination Location	Disposal Procedures
Concrete	Basin construction, pontoon construction	147,000 CY	Site-wide	Site concrete disposal areas	Authorized vendor
Form Oil	Form installation and removal (biodegradable)	1,000 gallons	Stored at northeast end of the employee parking lot, as well as near intended use areas.	Equipment Wash Station	Authorized vendor
Curing Compound	Assisting in curing of the basin during construction and curing of pontoons during operations	100 gallons	Stored at south end of employee parking lot in Concrete Crew Storage Building	Site concrete disposal areas	Authorized vendor
Hydrochloric Acid	Used to treat process water	500 gallons	Stored and used at Concrete Batch Plant	Concrete Batch Plant Pad (drains to their pit), or other location where water can be contained and conveyed to the process water treatment ponds	Authorized spill response vendor
Sulfuric Acid	Used to treat process water	400 gallons	Stored and used inside the pH Treatment Connex next to Pond 1; occasionally may also be temporarily staged in the Hazardous Materials area next to the Maintenance Shop.	Concrete Batch Plant Pad (drains to their pit), or other location where water can be contained and conveyed to the process water treatment ponds	Authorized spill response vendor

Material	Intended Use	Estimated Quantity	Location(s)	Decontamination Location	Disposal Procedures
Process Water	Generated in concrete production	Volume varies greatly day-to-day. Batch Plant has (2) two holding tanks at capacity of 10,000 gallons each; Also, process water collected from casting basin is held and treated at Pond 1, capacity of 1.6 million gallons	Concrete Batch Plant; Pond 1 (north detention pond)	Concrete Batch Plant Pad (drains to their pit), or other location where water can be contained and conveyed to the process water treatment ponds	Treated and discharged per NPDES SGGP conditions
Dangerous/Hazardous Wastes		Varies	Hazardous Waste Accumulation Area	Hazardous Waste Accumulation Area	Per State and Federal Regulations

Abbreviations:
CY Cubic yards
TBD To be determined

Table 4. Spill Response Kit Contents and Locations[1]

Type of Spill Kit	Spill Kit Contents	Spill Kit Location(s)
General Work Area Universal Spill Kit	Containment drum, sorbent pads and socks, Nitrile gloves, plastic bag, Absorbent-W granular	Several locations near Area of Work
Vehicle/Mobile Equipment Kit	Containment bag, sorbent pads and socks, Nitrile gloves	Vehicles and moveable equipment
Truck Kit	5 gal bucket, sorbent pads and socks, Nitrile gloves, plastic bag	In fueling vehicles and any vehicles regularly located a distance from general construction areas
Conex Kit	Containment drum, sorbent pads and socks, Nitrile gloves, plastic bag, Absorbent-W granular	Fueling and maintenance area
Marine “Tug Pack”	95 gal overpack drum, 4 sorbent booms-5” x 10’, 2 sorbent sweeps-19” X 100’, 1 sorbent pad-16” X 20”, 25 spill bags-4mil, duct tape, petro flex gloves	On all tugs, barges, and water based equipment

Note:
1 Refer to Figure 8 for a map showing spill kit locations.

Table 5. Spill Response Procedures for Spills of Each Type of Hazardous Material at Each Location Identified in Section 4.0[1,2,3] (including actions to be taken and equipment to be used)

	Spill Response Task			
Hazardous Material and Location	**Assess the Spill**	**Secure the Area**	**Contain and Eliminate the Spill Source**	**Clean up Spilled Material, Decontaminate Equipment, Dispose of Spilled and Contaminated Material**
Petroleum Hydrocarbons Diesel fuel, gasoline, engine oil, hydraulic fluid, and transmission fluid Petroleum hydrocarbons are found in most mobile and stationary pieces of equipment used at the job site. Petroleum hydrocarbons will be stored onsite in above ground storage tanks and drums inside a locked and fenced maintenance area. The storage area will have its own water control system and water-oil separators (lube farm).	Assess the quantity of substance spilled Assess the extent of the affected area Determine the source of the spilled material	Cease operations and if the spill cannot be safely and effectively controlled, direct safe evacuation of the area and notify outside response services If the spill can be controlled by K-G personnel, secure the area and obtain appropriate spill response equipment Shut down all equipment and ignition sources in the spill area.	Contain the spill with sandbags or mini-booms to prevent entry to catch basins, storm drains, or ditches that discharge to waters of the State Seal or stop the source of the spill by closing valves, providing containment, or deactivating pumps Apply absorbent material or berms to divert or contain the spill Immediately place booms around hydraulic oil spills to water	Spills to ground: • Immediately clean up the spill • Apply absorbent material, berm, divert, or contain the spill • Collect spilled material and place into labeled drums • Collect absorbent and other material used to clean up the spill, label the container, and properly dispose of waste at an approved facility • Decontaminate the affected area, equipment and surfaces that have contacted the spilled material Spills to waterways: • Immediately clean up the spill • Clean up absorbent and waste materials and dispose of at an approved waste disposal facility • Report spill in accordance with applicable environmental permit, and WSDOT's Environmental Compliance Assurance Procedures by contacting WSDOT's Project Engineer • Decontaminate the affected area, equipment, and surfaces that have contacted the spilled material.

	Spill Response Task			
Hazardous Material and Location	**Assess the Spill**	**Secure the Area**	**Contain and Eliminate the Spill Source**	**Clean up Spilled Material, Decontaminate Equipment, Dispose of Spilled and Contaminated Material**
Petroleum Hydrocarbons (continued) Diesel fuel, gasoline, engine oil, hydraulic fluid, and transmission fluid Petroleum hydrocarbons are found in most mobile and stationary pieces of equipment used at the job site. Petroleum hydrocarbons will be stored onsite in above ground storage tanks and drums inside a locked and fenced maintenance area. The storage area will have its own water control system and water-oil separators (lube farm).	Assess the quantity of substance spilled Assess the extent of the affected area Determine the source of the spilled material	Cease operations and if the spill cannot be safely and effectively controlled, direct safe evacuation of the area and notify outside response services If the spill can be controlled by K-G personnel, secure the area and obtain appropriate spill response equipment Shut down all equipment and ignition sources in the spill area.	Contain the spill with sandbags or mini-booms to prevent entry to catch basins, storm drains, or ditches that discharge to waters of the State Seal or stop the source of the spill by closing valves, providing containment, or deactivating pumps Apply absorbent material or berms to divert or contain the spill Immediately place booms around hydraulic oil spills to water	Contaminated soil will be dug out, placed within barrels, and removed for proper disposal If spill is too large, dangerous, or involved, work with spill response subcontractor and emergency personnel to clean up spill. Disposal of spilled and contaminated material and all decontamination fluids in accordance with all regulations at a legally permitted facility in accordance with WSDOT specification 2-03.3(7)C. Within 7 days of disposal, provide documentation bills of lading or chain-of-custody documents substantiating such disposal to the WSDOT PE.
Coolant Located in mobile and stationary construction equipment	Same as above	Same as above	Same as above	Same as above
Form Oil Stored onsite in original containers and smaller temporary containers for daily use	Same as above	Same as above	Same as above	Same as above
Curing Compound	Same as above	Same as above	Same as above	Same as above

	Spill Response Task			
Hazardous Material and Location	**Assess the Spill**	**Secure the Area**	**Contain and Eliminate the Spill Source**	**Clean up Spilled Material, Decontaminate Equipment, Dispose of Spilled and Contaminated Material**
Concrete, concrete slurry, process water, fresh concrete, runoff water from storm events	Assess the quantity of substance spilled Assess the extent of the affected area Determine the source of the spilled material	Cease operations and if the spill cannot be safely and effectively controlled, direct safe evacuation of the area and notify outside response services If the spill can be controlled by K-G personnel, secure the area and obtain appropriate spill response equipment Shut down all equipment and ignition sources in the spill area.	Contain the spill with sandbags or mini-booms to prevent entry to catch basins, storm drains, or ditches that discharge to waters of the State Seal or stop the source of the spill by closing valves, providing containment, or deactivating pumps Apply absorbent material or berms to divert or contain the spill	Contaminated soil will be dug out, placed within barrels, and removed for proper disposal If spill is too large, dangerous, or involved, work with spill response subcontractor and emergency personnel to clean up spill. Disposal of spilled and contaminated material and all decontamination fluids in accordance with all regulations at a legally permitted facility in accordance with WSDOT specification 2-03.3(7)C. Within 7 days of disposal, provide documentation bills of lading or chain-of-custody documents substantiating such disposal to the WSDOT PE.
Sulfuric Acid or Hydrochloric Acid	Same as above	Same as above	Seal or stop the source of the spill by closing valves, providing containment, or deactivating pumps. For smaller spills, use Soda Ash or Baking Soda to neutralize the acid. For uncontrolled large spill, evacuate the area and contact Spill Response Subcontractor.	Work with spill response subcontractor and emergency personnel to clean up spill. Dispose of spilled and contaminated material and all decontamination fluids in accordance with all regulations at a legally permitted facility in accordance with WSDOT specification 2-03.3(7)C. Within 7 days of disposal, provide documentation bills of lading or chain-of-custody documents substantiating such disposal to the WSDOT Project Engineer.

Notes:
1 Except for spills occurring during working with equipment used below the ordinary high water line. Refer to Table 9.
2 Oil, paint, and solvent spills shall be prevented from reaching storm drains or other discharge points.
3 It is acceptable to combine materials covered by the same response procedures, as long as each material is clearly identified

Table 6. Spill Response Procedures for Storm Water that has Contacted Hazardous Materials
(including actions to be taken and equipment to be used)

Assess Contaminated Storm Water	Secure the Area	Contain and Eliminate the Contaminated Storm Water and its Source	Clean up Contaminated Storm Water, Decontaminate Equipment, Dispose of Contaminated Storm Water and Supplies
Petroleum contaminated storm water	Contain the area immediately down gradient of the spill to prevent further runoff of contaminated material	Contain runoff using mini-booms Storm water ponds will have oil booms and oil turndowns to help prevent any release of petroleum that may be collected within a storm water control pond	Follow the response and reporting procedures outlined in Section 8.A and: Dispose of materials used to contain contaminated storm water in a manner consistent with federal, state, and local regulations
Concrete contaminated storm water	Same as above	Same as above	Same as above

Table 7. Spill Response Procedures for Releases or Spills of any Pre-existing Contamination and Contaminant Source Described in Section 5.0 (including actions to be taken and equipment to be used)

	Spill Response Task			
Contamination or Contaminant Source	**Assess the Spill**	**Secure the Area**	**Contain and Eliminate the Spill Source**	**Clean up Spilled Material, Decontaminate Equipment, Dispose of Spilled and Contaminated Material**
Total petroleum hydrocarbons in soil due to previous site use	Assess the quantity of contamination Assess the extent of the affected area If possible, determine the source of the contamination	Cease operations and if the spill cannot be safely and effectively controlled, direct safe evacuation of the area and notify outside response services Immediately contact the K-G Environmental Compliance Manager Properly mark and secure the area with temporary fencing until the site is evaluated by the ECM and WSDOT If the spill can be controlled by K-G personnel, secure the area and obtain appropriate spill response equipment Shut down all equipment and ignition sources in the contamination area	Contain the contamination with sandbags or mini-booms to prevent entry to catch basins, storm drains, or ditches that discharge to waters of the State Apply absorbent material or berms to divert or contain the contamination	All contaminated soil and groundwater will be handled and cleaned up in accordance with the Soil Management Plan provided as Appendix I to the Environmental Compliance Plan As necessary and at the direction of WSDOT, develop a site Investigation work Plan and Remediation Plan
Creosote material due to previous site use	Same as above	Same as above	Same as above	Same as above
Underground storage tanks (USTs)[1]	Same as above	Same as above	Same as above	Same as above

Note:
1 USTs have not been identified onsite.

Table 8. Spill Response Procedures for Releases or Spills of any Pre-existing Contamination and Contaminant Sources Encountered during Project Work (including actions to be taken and equipment to be used)

	Spill Response Task			
Contamination or Contaminant Source	**Assess the Spill**	**Secure the Area**	**Contain and Eliminate the Spill Source**	**Clean up Spilled Material, Decontaminate Equipment, Dispose of Spilled and Contaminated Material**
Hazardous materials may be encountered during basin excavation including creosote treated lumber and small areas of petroleum. If contaminated materials are found, the spill response procedures will be followed	Assess the quantity of contamination Assess the extent of the affected area If possible, determine the source of the contamination	Cease operations and if the spill cannot be safely and effectively controlled, direct safe evacuation of the area and notify outside response services Immediately contact the K-G Environmental Compliance Manager Properly mark and secure the area with temporary fencing until the site is evaluated by the ECM and WSDOT If the spill can be controlled by K-G personnel, secure the area and obtain appropriate spill response equipment Shut down all equipment and ignition sources in the contamination area.	Contain the contamination with sandbags or mini-booms to prevent entry to catch basins, storm drains, or ditches that discharge to waters of the State Apply absorbent material or berms to divert or contain the contamination	All contaminated soil and groundwater will be handled and cleaned up in accordance with the Soil Management Plan provided as Appendix I to the Environmental Compliance Plan As necessary and at the direction of WSDOT, develop a site Investigation work Plan and Remediation Plan

Table 9. Spill Response Procedures for Spills Occurring During Work with Equipment Used Below the Ordinary High Water Line (including actions to be taken and equipment to be used)

Hazardous Material and Location	Spill Response Task			
	Assess the Spill	**Secure the Area**	**Contain and Eliminate the Spill Source**	**Clean up Spilled Material, Decontaminate Equipment, Dispose of Spilled and Contaminated Material**
Petroleum Hydrocarbons Diesel fuel, gasoline, engine oil, hydraulic fluid, and transmission fluid Petroleum hydrocarbons are found in most mobile and stationary pieces of equipment used at the job site.	Assess the quantity of substance spilled Assess the extent of the affected area Determine the source of the spilled material	Cease operations and if the spill cannot be safely and effectively controlled, direct safe evacuation of the area and notify outside response services If the spill can be controlled by K-G personnel, secure the area and obtain appropriate spill response equipment Shut down all equipment and ignition sources in the spill area.	Seal or stop the source of the spill by closing valves, providing containment, or deactivating pumps Immediately place booms around spills to water to contain Apply sorbent pads or berms to divert or contain the spill.	Spills to waterways: • Immediately clean up the spill • Clean up absorbent and waste materials and dispose of at an approved waste disposal facility • Decontaminate the affected area, equipment, and surfaces that have contacted the spilled material.

For small spills (pipe leaks or tank overflows):

1. Stop the flow of any spilled product.
   - o Close headers and other valves (if applicable).
   - o Isolate leaking sections of hose or pipe.
2. Employ damage control equipment. Stop the flow of any spilled product.
   - o Close headers and other valves (if applicable).
   - o Isolate leaking sections of hose or pipe.
3. Employ damage control equipment. Safety of personnel.
   - o Warn all vessel and facility personnel in the immediate area.
4. Put on personal protective equipment, Level C, as required. Initial Assessment and containment.
   - o Assess: spill volume, movement, weather.
5. Identify local environmentally-sensitive areas. Notify the appropriate people as indicated on the Spill Response Phone Tree provided in Attachment H. This phone tree is site-specific and will be updated with appropriate numbers throughout the duration of the project.
6. Deploy containment recovery equipment.
   - o For light sheens and small slicks, deploy sorbent sweeps, booms, or pads. For larger spills, obtain and launch containment boom.
   - o Maintain cleanup efforts until commercial assistance arrives.
7. Document the spill with the Spill Report Form provided in Attachment H

Figures

	Title:	KIEWIT SPILL REPORTING PROTOCOL	ESP#	07-G2a
	Department:	Environmental	Revision:	00
			Page:	1 of 1

Project Name: 520 Pontoons Construction	Job Number: 323-14285

NOTE:
For contact names and phone numbers, refer to Table 1 of the Environmental Compliance Plan Section II

SPILL
(or pre-existing contamination)
1st Witness

ALERT Responsible Person(s):
- Foreman
- General Foreman
- Superintendent
- Engineer

NOTIFY:
- Project Manager
- Job Superintendent
- ECM

NOTIFY:
Site Owner (WSDOT)
- WSDOT ECM
- WSDOT Project Engineer

IS THIS AN AGENCY REPORTABLE SPILL?

YES

REFER TO
Regulatory Agency Reporting Flowchart
Figure 1B of this SPCC Plan

NO

DOES INCIDENT REQUIRE ALERTING KIEWIT EXECUTIVE MANAGEMENT?

NO

YES

NOTIFY:
- District Environmental Manager

NOTIFY:
- District Environmental Manager
- Job Sponsor or Area Manager
- District Manager
- Media Coordinator

DOCUMENT:
- KieTrac (Corporate Reporting)
- Spill Incident Report (Project Reporting)
- WSDOT's ECAP Report (Project Reporting)
- Follow-up Letter to Regulatory Agency

DOCUMENT IF APPLICABLE:
- Spill Incident Report (Project Reporting)
- WSDOT's ECAP Report (Project Reporting)

SPCC Plan Figure 1A

	Title:	REGULATORY AGENCY SPILL REPORTING	ESP#	07-G2b
	Department:	Environmental	Revision:	06
			Page:	1 of 1

Project Name: 520 Pontoons Construction	Job Number: 323-14285

Trigger: Hazardous Material Spill or Encounter

(Not a life threatening emergency)

If a spill is **caused by the Contractor**, the Contractor immediately reports to WSDOT Principal Engineer (PE) then together Kiewit-General and WSDOT on a case-by-case basis will notify required regulatory agencies as indicated below.

For **pre-existing contamination**, the Contractor reports to WSDOT Environmental Compliance Manager (ECM). The ECM notifies the PE who follows ECAP (Construction Manual 1-2.2K) to determine internal and external reporting procedures. *

Spill or Release to Water

Including the ocean, ponds, ditches, seasonally dry streams & wetlands

Immediately call National Response Center (24 hr)

1-800-424-8802

AND

Immediately call Washington State Division of Emergency Management (24 hr)

1-800-258-5990

AND

Immediately call Ecology Regional Office
1-360 407 6300

Spill or Release to Soil

Including encounters of pre-existing contamination

If an **immediate** threat to health or environment (i.e., explosive, flammable, toxic vapors, shallow groundwater, nearby creek) **immediately** call Ecology Regional Office

OR

* If NOT immediately threatening, but **may be a threat** to health or the environment, complete the response/cleanup & report to Ecology Regional Office within 90 days.

Underground Storage Tank (UST)

Encountering unknown USTs in excavations

If confirmed release from UST, report to Ecology Regional Office **within 24 hours**.

WHEN

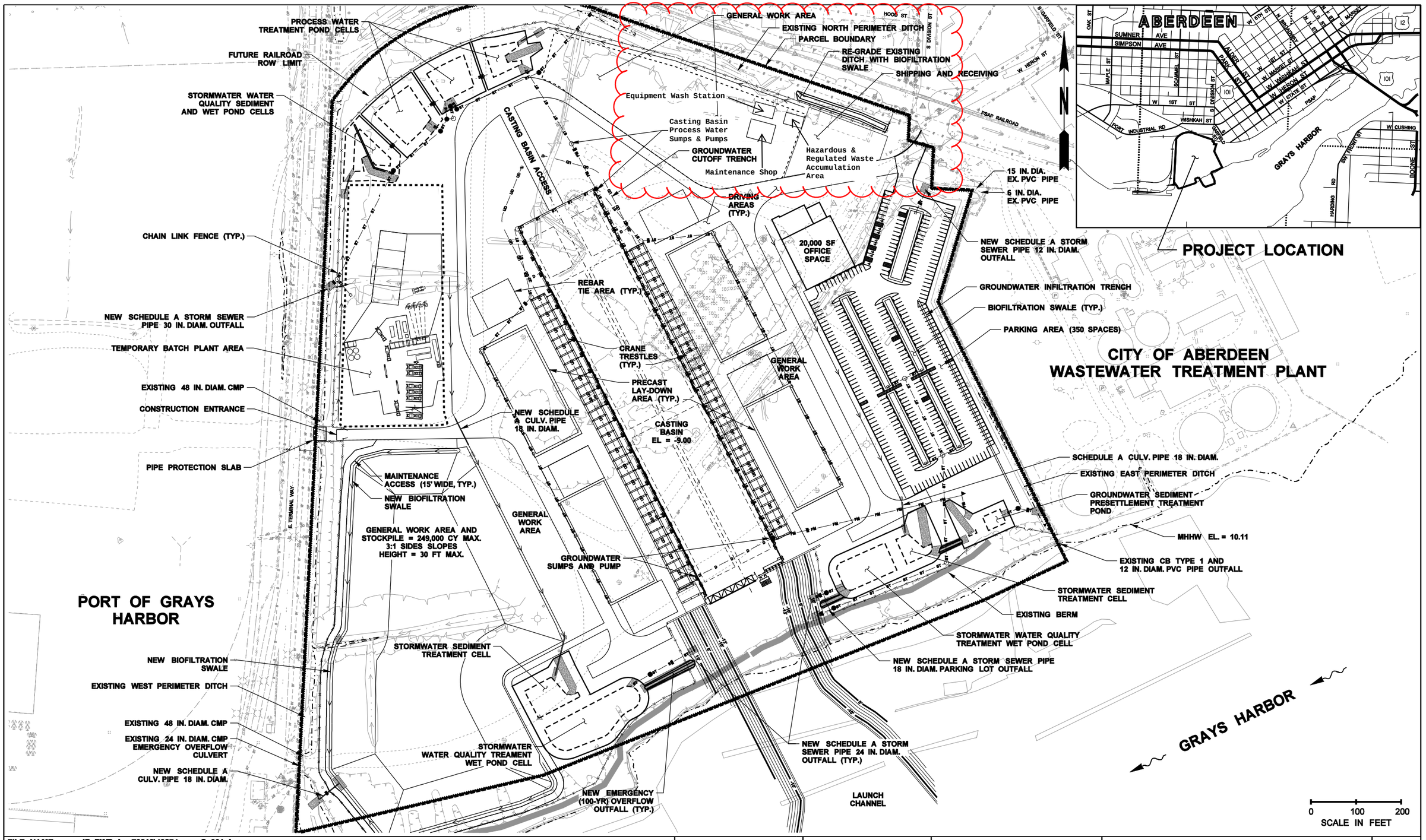
* Removal of regulated tank, submit written report to Ecology **within 30/90 days** per WAC 173-360-385 & WAC 173-340-450.

* Asterisks notes that reporting is conducted through ECAP where the PE coordinates regulatory agency reporting through the Regional Environmental Office and a Hazardous Materials Specialist.

Ecology Regional Office Number

Southwest (Lacey) 360-407-6300
http://www.ecy.wa.gov/programs/spills/other/reportaspill.htm

SPCC Plan Figure 1B



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DESIGNED BY	J. RADUENZ				CONTRACT NO.		LOCATION NO.
ENTERED BY	R. JOHNSON				007826		
CHECKED BY	J. RHODES						
PROJ. ENGR.	T. SCHNETZER	Operations Phase Update	Feb.2014	NH			
REGIONAL ADM.	K. DAYTON	REVISION	DATE	BY			

Kiewit General
HNTB
kpff

PRELIMINARY
NOT FOR CONSTRUCTION

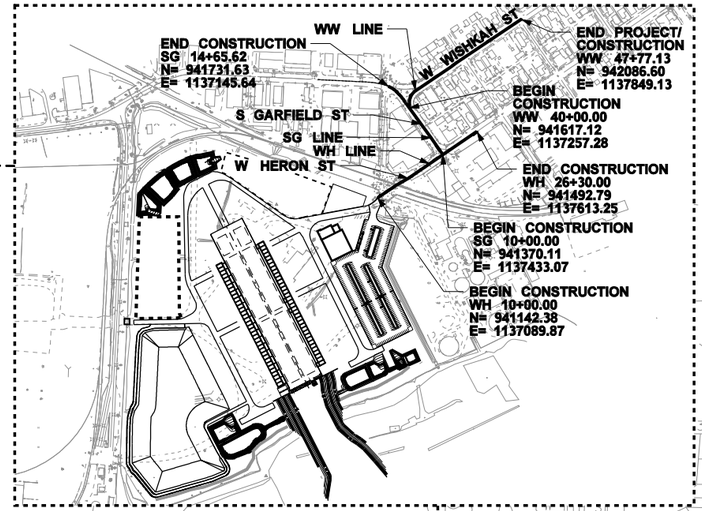
Washington State Department of Transportation

SR 520 PONTOON CONSTRUCTION
DESIGN-BUILD PROJECT
ENVIRONMENTAL COMPLIANCE PLAN
APPENDIX C: SPCC PLAN

SITE LAYOUT

FIGURE 2

SHEET OF SHEET



BEGIN PROJECT
(NO ALIGNMENT STATIONING)
N= 981624.50
E= 1107678.76

END PROJECT
WW 47+77.13
N= 942086.60
E= 1137849.13

PACKAGE A - OFFSITE IMPROVEMENTS

PACKAGE B - SITE FACILITY IMPROVEMENTS

13 PROJECT AREA
ABERDEEN LOG YARD

NOTES:

1. DARKENED ROADWAYS INDICATE HAUL ROUTES OR STATE ROADS

0 1000 2000
SCALE IN FEET

FILE NAME	IP_PWP:dms70212\49854_ecp_C_002.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	01-NOV-2010 16:08				10	WASH	
DATE	01-NOV-2010				JOB NUMBER		
PLOTTED BY	rmjohnson				007826		
DESIGNED BY	J. RHODES				CONTRACT NO.		LOCATION NO.
ENTERED BY	R. JOHNSON				007826		
CHECKED BY	T. SCHNETZER						
PROJ. ENGR.	T. SCHNETZER						
REGIONAL ADM.	K. DAYTON	REVISION	DATE	BY			

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ENVIRONMENTAL COMPLIANCE PLAN
APPENDIX C: SPCC PLAN

VICINITY MAP

FIGURE 3

SHEET OF SHEET

PROCESS WATER TREATMENT POND CELLS

STORMWATER WATER QUALITY SEDIMENT AND WET POND CELLS

PROCESS WATER PUMP FROM CASTING BASIN TO NORTH POND

NEW SCHEDULE A STORM SEWER PIPE 30 IN. DIAM. OUTFALL

TEMPORARY BATCH PLANT AREA WITH SELF CONTAINED RUNOFF CAPTURE

NEW BIOFILTRATION SWALE

NEW SCHEDULE A CULV. PIPE 18 IN. DIAM.

NEW SCHEDULE A STORM SEWER PIPE 12 IN. DIAM. OUTFALL

PROJECT LOCATION

CITY OF ABERDEEN
WASTEWATER TREATMENT PLANT

GROUNDWATER PUMPS TO PRESETTLEMENT POND

GROUNDWATER INFILTRATION TRENCH

EXISTING 12 IN. DIAM. OUTFALL

EMERGENCY (100-YR) OVERFLOW OUTFALL FROM GROUNDWATER PRESETTLEMENT POND TO WATER QUALITY WET POND

NEW 24 IN. DIAM. OUTFALL FROM WATER QUALITY TREATMENT POND

EMERGENCY (100-YR) OVERFLOW OUTFALL

NEW 18 IN. DIAM. OUTFALL FROM PARKING LOT BIOFILTRATION SWALES

NEW 24 IN. DIAM. OUTFALL FROM WATER QUALITY TREATMENT POND

EMERGENCY (100-YR) OVERFLOW OUTFALL

GRAYS HARBOR

0 100 200
SCALE IN FEET

FILE NAME	IP_PWP:dms70212\49854_ecp_C_003.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
TIME	01-NOV-2010 16:08						
DATE	01-NOV-2010				JOB NUMBER 007826		
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DESIGNED BY	J. RADUENZ				CONTRACT NO. 007826		LOCATION NO.
ENTERED BY	R. JOHNSON						
CHECKED BY	J. RHODES						
PROJ. ENGR.	T. SCHNETZER						
REGIONAL ADM.	K. DAYTON	REVISION	DATE	BY			

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SR 520 PONTOON CONSTRUCTION
DESIGN-BUILD PROJECT
ENVIRONMENTAL COMPLIANCE PLAN
APPENDIX C: SPCC PLAN

DRAINAGE PATHWAYS

FIGURE 4

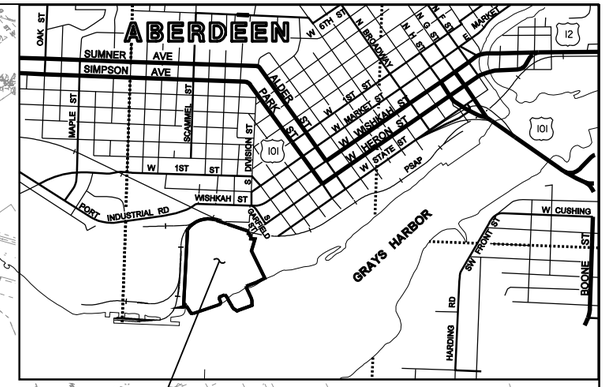
SHEET OF SHEET

MAINTENANCE AREA WITH REFUELING CONEX CONTAINMENT SYSTEM OIL WATER SEPARATOR AND GREASE CONTAINMENT.

HAZARDOUS & REGULATED WASTE ACCUMULATION AREA

PSAP RAILROAD

S GARFIELD ST



PROJECT LOCATION

CITY OF ABERDEEN
WASTEWATER TREATMENT PLANT

GRAYS HARBOR

0 100 200
SCALE IN FEET

FILE NAME	IP_PWP:dms70212\49854_ecp_C_004.dgn				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
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DESIGNED BY	J. RADUENZ						
ENTERED BY	R. JOHNSON						
CHECKED BY	J. RHODES						
PROJ. ENGR.	T. SCHNETZER	Operations Phase Update	Feb.2014	NH	CONTRACT NO. 007826		LOCATION NO.
REGIONAL ADM.	K. DAYTON	REVISION	DATE	BY			

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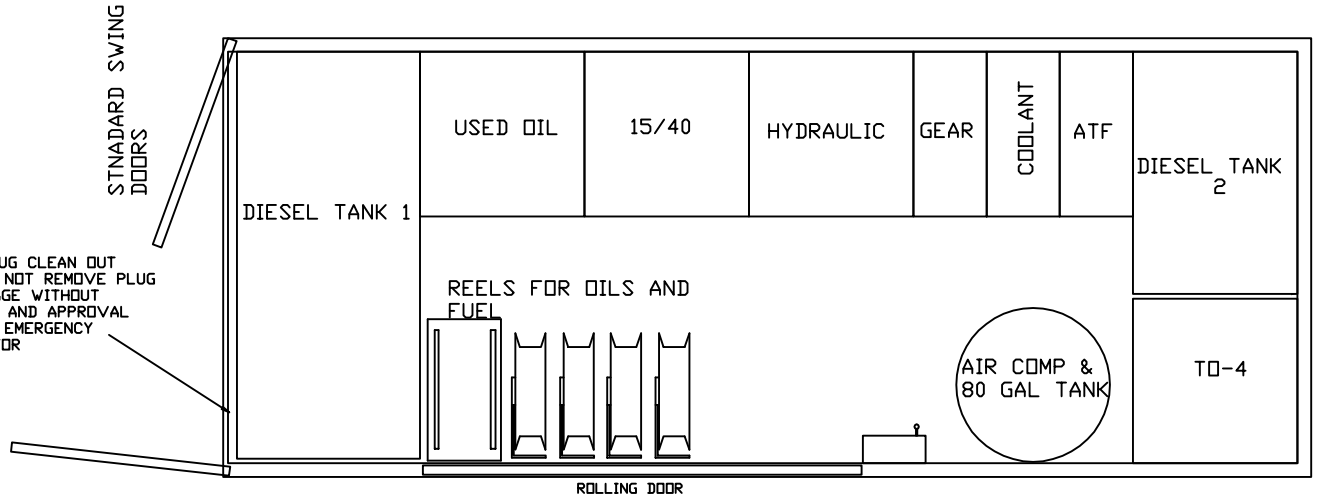
SR 520 PONTOON CONSTRUCTION
DESIGN-BUILD PROJECT
ENVIRONMENTAL COMPLIANCE PLAN
APPENDIX C: SPCC PLAN

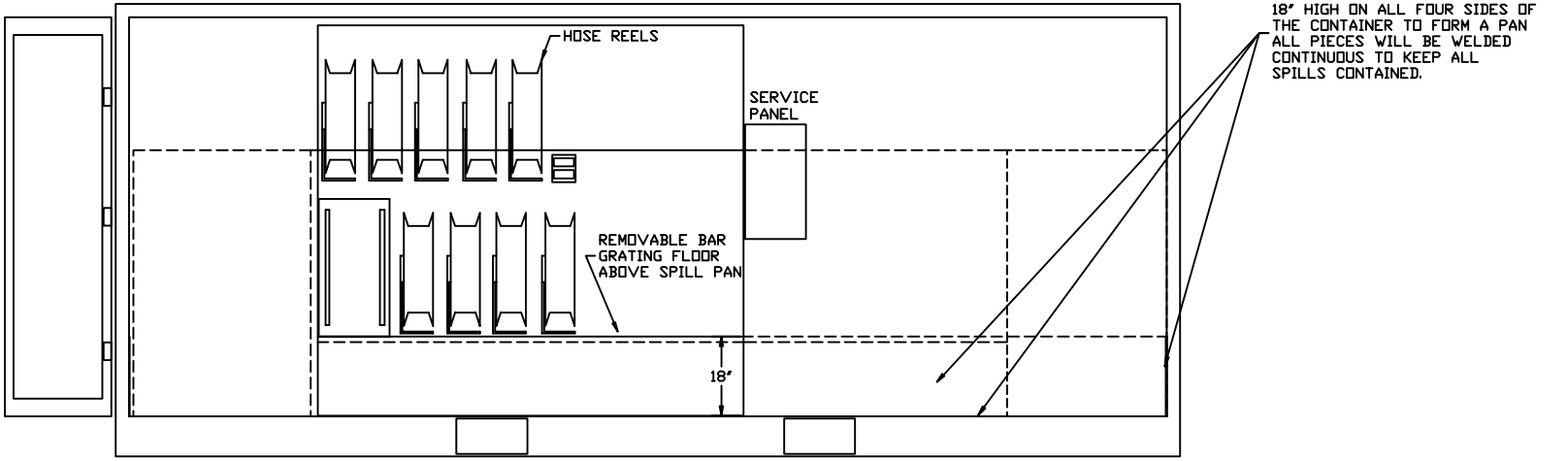
MAINTENANCE AND FUELING LOCATIONS

FIGURE 5

SHEET OF SHEET



PRODUCT TANKS & CAPACITIES	
PRODUCT	CAPACITY
DIESEL TANK 1	300 GALLONS
ATF	190 GALLONS
TO-4 30WT	190 GALLONS
COOLANT	190 GALLONS
GEAR OIL	190 GALLONS
15/40 MOTOR OIL	190 GALLONS
HYDRAULIC OIL	190 GALLONS
DIESEL TANK 2	1000 GALLONS
USED OIL	290 GALLONS



SECONDARY CONTAINMENT VOLUME:

THE CONTAINMENT PAN OVERALL INSIDE MEASUREMENTS ARE 229-7/8" L, 91-3/4"W, 17-7/8" H
STEP CUTOUT MEASURES 17-1/2"X20-1/4"X17-7/8", DOOR CUT OUT MEASURES 83"X5-1/2"X17-7/8"

229-7/8"X91-3/4"X17-7/8" - 17-1/2"X20-1/4"X17-7/8" - 83"X5-1/2"X17-7/8" = 362,508 CU IN
362,508 CU IN / 231 CU IN PER GALLON = 1,569 GALLONS

DEDUCTIONS: DEDUCT THE DISPLACEMENT OF THE TANKS NOT INCLUDING THE 1,000 GALLON TANK
TANK VOLUME DEDUCTION: 515 GALLONS (SEE CALCULATION SHEET)

NET SECONDARY CONTAINMENT: 1569-515 = 1054 GALLONS > 1000 GALLONS ADEQUATE

KIEWIT INFRASTRUCTURE WEST CO.

LUBE CONTAINER
TANK LAYOUT & CAPACITIES

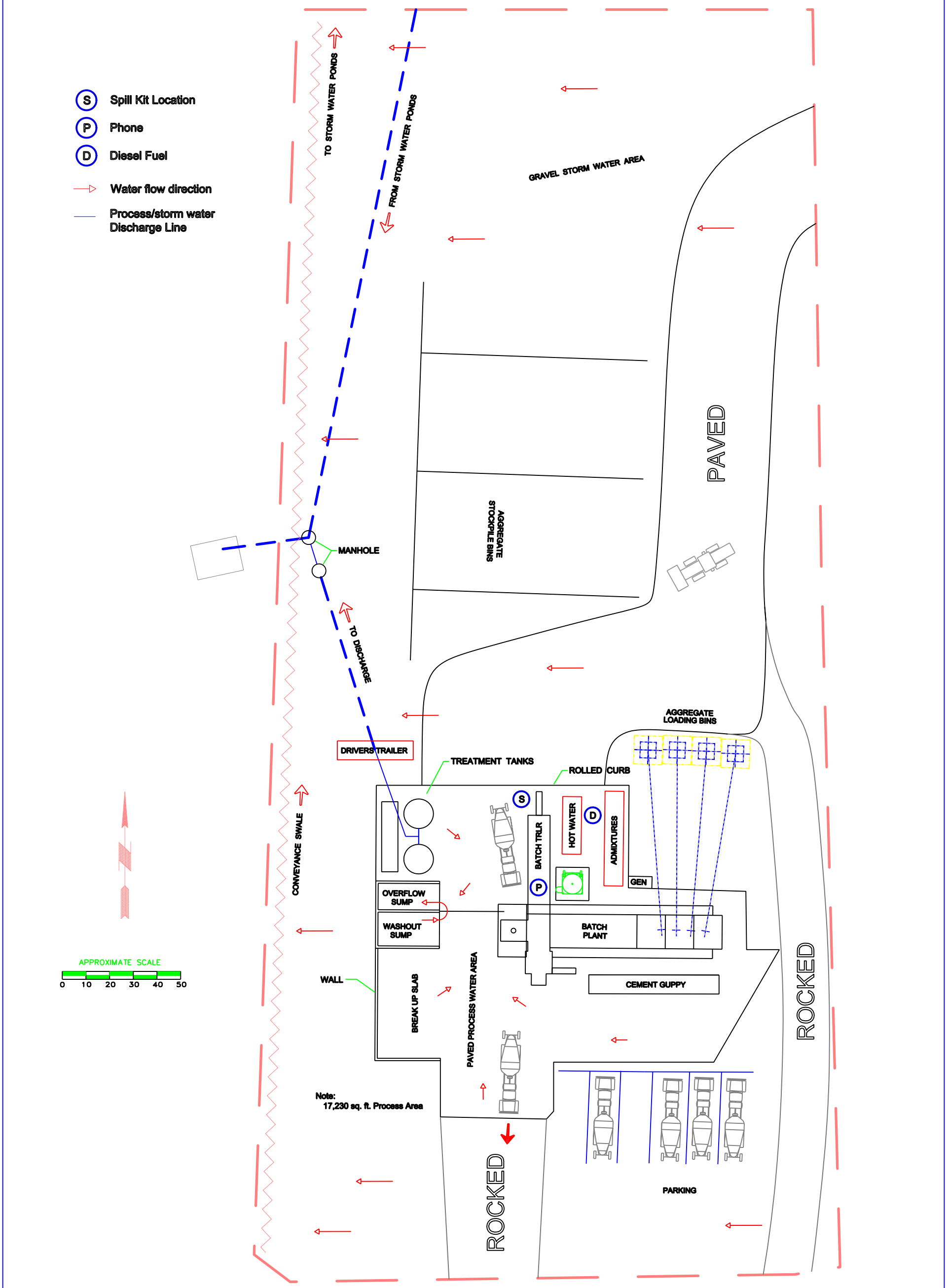
COLUMBIA SHOP
13000 NE WHITAKER WAY
PORTLAND, OR 97230
(503) 256-5541

JULY 23, 2010

24-3902

SIZE	FSCM NO.	DWG NO.	REV
A			0

SCALE	DWN: RYAN WAFER	SHEET 1/1



DRAWN: V. Ghigleri	Drawing # 520-0000-00	SR 520 Pontoon Construction Design-Build Project Environmental Compliance Plan Appendix C: SPCC Plan	Figure 7 Batch Plant Layout
DESIGN:	DATE: 7/6/10		
SCALE: 1" = 40'	REV. February 2014		

CALPORTLAND

PROCESS WATER PONDS

NORTH POND CONTROL STRUCTURES

WATER QUALITY WET POND

POC-2
WEST DITCH TREATED WATER OUTFALL TO SURFACE WATER (POINT OF COMPLIANCE)

BATCH PLANT SEDIMENT TRAP

BP-1
BATCH PLANT TREATED DISCHARGE TO THE WEST DITCH OUTFALL

CONTINGENCY OUTFALL CONTROL STRUCTURE FOR PROCESS WATER TO SEWER SYSTEM (POINT OF COMPLIANCE FOR WASTE DISCHARGE PERMIT)

POC-3
BIOFILTRATION SWALE OUTFALL TO NORTH DITCH SURFACE WATER (POINT OF COMPLIANCE)

POC-4
BIOFILTRATION SWALE OUTFALL TO EAST DITCH SURFACE WATER (POINT OF COMPLIANCE)

INFILTRATION TRENCH

POC-5
PRESETTLEMENT POND CONTROL STRUCTURE AND DISCHARGE TO INFILTRATION TRENCH (GROUNDWATER) (POINT OF COMPLIANCE)

PRESETTLEMENT POND CONSTRUCTED TO TREAT SEDIMENT FOR INFILTRATION TRENCH

PERMANENT WATER QUALITY TREATMENT WET POND

POC-6
EAST WATER QUALITY WET POND OUTFALL CONTROL STRUCTURE AND DISCHARGE TO GRAYS HARBOR (POINT OF COMPLIANCE)

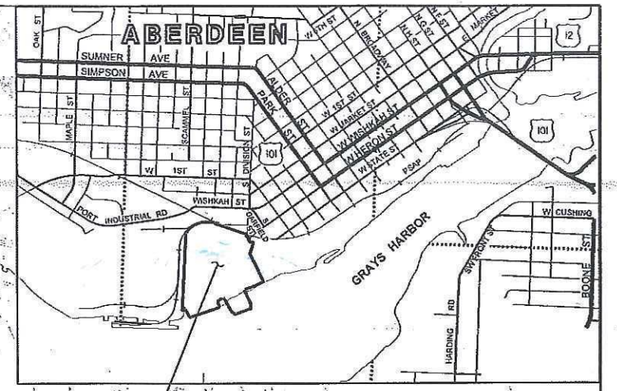
POC-7
PARKING LOT BIOFILTRATION SWALES CONTROL STRUCTURE AND DISCHARGE TO GRAYS HARBOR (POINT OF COMPLIANCE)

POC-8
WEST WET POND OUTFALL CONTROL STRUCTURE AND DISCHARGE TO GRAYS HARBOR (POINT OF COMPLIANCE)

PERMANENT WATER QUALITY TREATMENT WET POND

POC-1
DISCHARGE LOCATION FOR STABILIZED STOCKPILE TO WEST DITCH SURFACE WATER (POINT OF COMPLIANCE)

- FLAM CAB
- SPILL KITS
- OILY DEBRIS
- SPENT AEROSOL
- BATTERIES
- FLUORESCENT BULBS



PROJECT LOCATION

CITY OF ABERDEEN
WASTEWATER TREATMENT PLANT

GRAYS HARBOR

0 100 200
SCALE IN FEET

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DESIGNED BY	J. RADUENZ						
ENTERED BY	R. JOHNSON						
CHECKED BY	J. RHODES						
PROJ. ENGR.	T. SCHNETZER						
REGIONAL ADM.	K. DAYTON	REVISION	DATE	BY			

Kiewit General
HNTB
kpff

Washington State Department of Transportation

SR 520 PONTOON CONSTRUCTION DESIGN-BUILD PROJECT

SPCC Plan
SPILL KIT LOCATIONS

Figure 8

SHEET OF SHEET

Attachment A

OMMITTED

Attachment B

OMMITTED

Attachment C

Additional Items Brought Onsite Log
(Reserved)

ADDITIONAL SUBSTANCES BROUGHT ON SITE

Material	Intended Use	Estimated Quantity	Location(s)	Decontamination Location	Disposal Procedures
Latex Paints	Miscellaneous painting around site and for operations	50 gallons estimated site total	Near work locations around the project	Maintenance Shop's Equipment Wash Station	Dispose through approved disposal Vendor (not regular trash)
Oil-based Paints	Miscellaneous painting around site and for operations	50 gallons estimated site total	Same as above	Same as above	Same as above
Acrylic Paints	Miscellaneous painting around site and for operations	50 gallons estimated site total	Same as above	Same as above	Same as above
Epoxy Paints	Miscellaneous painting around site and for operations	50 gallons estimated site total	Same as above	Same as above	Same as above
Xylene	Paint thinner and solvent	5 gallons estimated site total	Same as above	Same as above	Same as above
Epoxy Adhesives	Miscellaneous operational/construction	10 gallons estimated site total	Same as above	Same as above	Same as above
Epoxy Resins	Miscellaneous operational/construction	10 gallons estimated site total	Same as above	Same as above	Same as above
Epoxy Sealants	Miscellaneous operational/construction	10 gallons estimated site total	Same as above	Same as above	Same as above
Neopreme Contact Adhesive	Miscellaneous operational/construction	55 gallons	Same as above	Same as above	Same as above
Soda Ash	Acid spill clean-up	100 pounds	Same as above	Same as above	Same as above

Great Stuff Foam (Aerosol Cans)	Miscellaneous operational/construction	50 gallons estimated site total	Same as above	Same as above	Same as above
Aerosol Paints	Miscellaneous operational/construction	50 gallons estimated site total	Same as above	Same as above	Same as above
Zep Mudslide	Cleaning small concrete equipment/tools	50 gallons estimated site total	Same as above	Same as above	Same as above
Hilti Safety Boosters	Formwork anchors	30 pounds estimated site total	Same as above	Same as above	Same as above
Silicone Sealants	Miscellaneous operational/construction	10 gallons estimated site total	Same as above	Same as above	Same as above
Deicer	Apply to walking surfaces to melt ice	200 pounds estimated site total	Same as above	Same as above	Same as above
Concrete Waterproofing	Apply to concrete surfaces	1,000 gallons estimated site total	Same as above	Same as above	Same as above

Abbreviations:

CY Cubic yards
TBD To be determined

In the log below, enter new substances brought on site which are not identified in Table 3 of this SPCC Plan.

Aberdeen Chemical Inventory

CAL-PORTLAND CONCRETE BATCH PLANT
December 2014

ID	Manufacturer/provider	Tank Size (gal)	Quantity	Tank Type	Max Qty (gal)	Max Qty (lbs)	Average Qty (gals	Average (lbs)	Location	CAS if available
Non Potable Water	n/a	10,000	2	Plastic	20000				Water Treatment	
Non Potable Water	n/a	4,000	1	Metal trailer	4000				Water Treatment	
ISO 15 W 40 oil	Chevron	55	1	steel barrel	55	459	33	275	Admix	
Rando Iso 46 hydraulic oil	Chevron	55	1	steel barrel	55	459	33	275	Admix	
V-Mar-3 (admixture)	Grace	275	1	Plastic tote	275	2294	165	1376	Loadout	Mix NA
Diesel	APP	300	1	Double wall stee	300	2502	180	1501	Heater conex	068476-34-6
Daravair (admixture)	Grace	500	1	Plastic	500	4170	300	2502	Admix	061790*-51-0
WRDA-64 (admixture)	Grace	1000	3	Plastic	3000	25020	1800	15012	Admix	0000102-71-6
Recover	Grace	1000	1	Plastic	1000	8340	600	5004	Admix	31138-65-5
Adva 195	Grace	1000	2	Plastic	2000	16680	1200	10008	Admix	184785-41-9
Propane	APP	500	1	Metal tank	500	4170	300	2502	east side admix	
Hydrochloric Acid	Northstar	400	1	Plastic Tank	400	3336	240	2002		007647-01-0
Truck Wash	Grace	275	1	Plastic Tote	275	2294	165	1376	Truck wash	mix na
Ecliples Plus	Grace	275	2	Plastic Tote	550	4587	330	2752	Admix	
		Size (tons -total)			Max Qty (tons)	Max Qty (lbs)	Average Qty (tons	Average (lbs)		
Cement	CalPorltand	175	2	Metal Silo	175	350000	105	210000	Plant	065997-15-1
Flyash	LaFarge	80	2	Metal Silo	80	160000	48	96000	Plant	068131-74-8
Silica fume	LaFarge	35	1	Metal Silo	35	70000	21	42000	Plant	14808-60-7
Sand and Gravel	CalPorltand	6000	2	Bunkers	6000	12000000	3600	7200000	North plant	014808-60-7

Attachment D

Reference MSDS Online System

If you need an MSDS go to:

www.msdsonline.com

Username: 520pontoons

Password: 520pontoons

Attachment E

Standard Procedures for Fueling Operations

General Construction Company

Land Based Fueling Procedures

1 If a job site or fixed facility utilizes an authorized and approved stationary fuel tank it must have: double spill containment, spill kit available, collision protection (e.g. jersey barriers or ecology blocks) must follow all construction fire protection and prevention requirements and must be secured against vandalism or theft.
The following fueling procedures are mandatory.

- Equipment shall be taken to the stationary tank to be filled.
- While fueling a designated person shall be monitoring the tank to prevent overfilling at all times.
- The equipment is to be turned off. If the equipment is on wheels, it is to be chocked.

If it is not possible to move the equipment to the stationary tank to be filled, then the following is to be performed.

2 You must have a 110 gallon or smaller rated fuel tank installed in the bed of a designated job truck. This job truck is to be used to transfer the fuel from the stationary tank to the equipment. All fueling procedures apply. Any truck with a fuel tank installed shall NOT be driven off the jobsite or on a public roadway.

If it is not possible to fuel out of a designated job truck due to volume required, access, etc. then the following is to be performed.

3 Set up an authorized offsite fueling service to fuel the equipment. The fueling service must have appropriate permits, SPCC plan, and insurance.

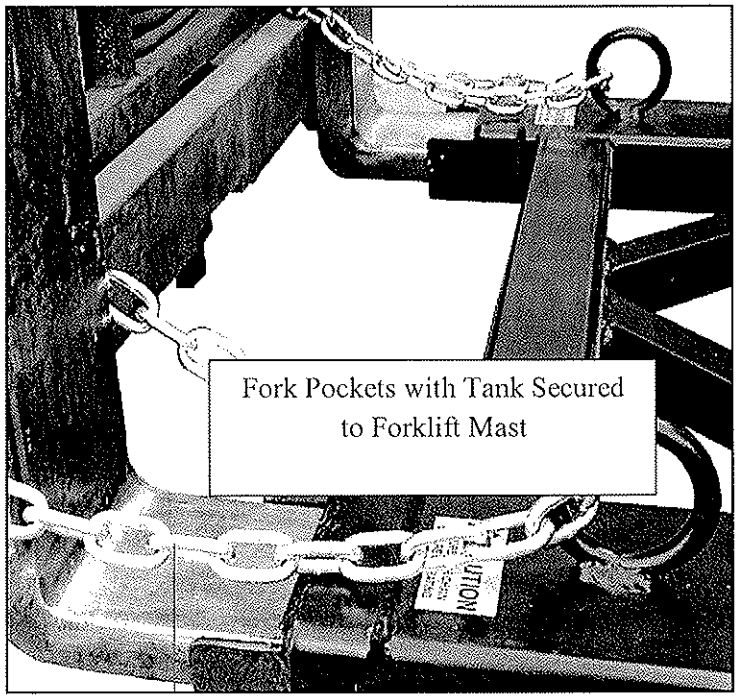
After all other resources have been exhausted then it is permissible to transport a fuel tank with a powered industrial vehicle to perform the fueling.

4 If a forklift or telehandler is used, then the following must be adhered to and addressed in a specific jobsite Job Hazard Analysis (JHA).

- The Job Sponsor or above must sign off on the operation.
- The tank shall have fork pockets or similar to prevent the tank from sliding on the forks (see photo).
- The tank must be secured to the mast of the forklift or telehandler (see photo).
- The forklift or telehandler is to only travel in 1st or "low" gear.
- The tank is to be kept as low to the ground as possible. Typically 6".
- A designated spotter will walk alongside the forklift or telehandler in clear view of the operator and the oncoming terrain so as to serve as a second set of eyes. The designated flagger is to be no closer than 15' yet no further than 25' from the forklift or telehandler. If the

operator and flagger cannot communicate with normal speaking voices, then radios shall be employed.

- When fueling, the forklift or telehandler is to be turned off, the wheels chocked, and the tank set firmly on the ground.



Fork Pockets with Tank Secured to Forklift Mast

NOTE: *Only trained and authorized operators shall be allowed to operate any GCC powered industrial vehicles and are required to follow all safety rules as specified in Section 15 of the District Safety Manual.*

General Construction Company

PORTABLE EQUIPMENT ON FLOATING PLATFORMS FUELING PROCEDURES

(generators, light plants, forklifts, saws, compressors, etc.)

ENVIRONMENTAL GUIDELINES

Fuel, hazardous materials or any type of contaminated water should never be discharged overboard. The risk of pollution increases significantly during refueling, operation or servicing of portable equipment on floating platforms (e.g. flat deck barges, flexi-floats, derrick barges, pontoons, etc.). The following measures are designed to eliminate, minimize and mitigate the risk of a spill.

REFUELING OPERATIONS

- Use propane fueled equipment whenever possible;
- Fuel storage tanks will be double hull and properly labeled;
- Secondary containment will be placed under hose reels and protected from inclement weather;
- Stop all engines and turn off all electrical switches;
- Transferring fuel from any piece of floating equipment to another piece of floating equipment will have 100% containment with an oil boom around both pieces.; This includes the pontoons, so keep fuel tanks and equipment on the smaller construction barges to avoid having to put oil boom around such big pieces;
- Use portable spill containment berm when refueling equipment on any floating platform (e.g. flat deck barges, derrick barges, pontoons, etc.);
- Chock wheels on all rubber tired equipment;
- Use funnels when required;
- Store all hazardous materials in flam cabinet with secondary containment;
- Secure all equipment prior to fly-over and re-check immediately at destination;
- Close fuel tank vents, secure hoses and make sure nozzles are drip dried prior to fly over;
- Refueling is a two person operation. Maintain presence at all times when refueling;
- No topping off. Leave sufficient head space;
- Avoid and or minimize storage of hazardous materials on flexi-floats or take extra precautions;
- Do not store fuel or equipment on unlevel ground;
- Maintain spill kits on every floating platform at all times for instant use if needed;
- Do not prop fuel nozzles open
- Make sure gauges are working properly; Know the capacity of fuel tank;
- Inspect hoses, fittings, drip pans on all equipment;
- Wipe up drips immediately;

- Hang nozzles up;
- Be prepared and refuel periodically. Don't refuel when the rush is on.
- Third party fuel suppliers must have a spill prevention and countermeasure plan and insurance;
- All guidelines apply to our subs;
- Pay attention to surroundings. Watch out for rouge wakes or waves and inclement weather;
- Use an absorbent pad around nozzle to catch splash-backs or drips. Clean up any spilled fuel with absorbent cloths;
- Maintain nozzle contact with fill pipe;
- DO NOT use automatic stop device; DO NOT chock nozzles open;
- Make sure nozzle is dripped dried before it is removed from tank and hold nozzle upright to prevent fuel from dripping out of nozzle;
- If oil is spilt remove instantly using an absorbent pad;
- When pouring from a portable tank, use a proper funnel or spout with matching capacity;
- Store fuel in an area that is protected from inclement weather and away from water's edge;
- Never use detergents or emulsifiers to deal with oil or fuel spills;
- Used oil absorbents should be disposed of properly at approved facilities.

OPERATING EQUIPMENT

- Chock wheels on all rubber tired equipment;
- Inspect equipment read the gauges and routinely look for leaks, spills or signs of trouble (vibrations, squeals, squeaks, noise, smoke, temperature, etc.);
- Keep an eye open for trouble;
- Don't overload and take care of equipment.

SERVICING EQUIPMENT

- Follow the engine manufacturer's recommended maintenance schedule;
- Perform work over drop cloth; and under cover if raining;
- Deploy oil boom for overwater service activities;
- When servicing the engine ensure that fuel, oil and lubricants are cleaned up immediately;
- DO NOT store hoses or, parts over head or where they can't be observed.
- Never use detergents or emulsifiers to deal with oil or fuel spills.

General Construction Company

COMMERCIAL WATERCRAFT

(work skiffs and other water craft not covered under the GC SOPEP)

ENVIRONMENTAL GUIDELINES

Fuel, hazardous materials or any type of contaminated water should never be discharged overboard. The risk of pollution increases significantly during refueling, servicing or bilge pumping. The following measures are designed to eliminate, minimize and mitigate the risk of a spill.

REFUELING OPERATIONS

- Layout watercraft to prevent slip, trip and fall hazards; and make sure fire extinguisher is present;
- Secure watercraft to fueling station (e.g. fuel barge or floating platform);
- Stop all engines and turn off all electrical switches;
- Transferring fuel from any piece of floating gear to another piece of floating gear will have 100% containment with an oil boom around both pieces.; This includes the pontoons, so keep fuel tanks and equipment on the smaller construction barges to avoid having to put oil boom around such big pieces;
- Pay attention to surroundings. Watch out for rouge wakes or waves;
- Make sure gauges are working properly; Know the capacity of fuel tank;
- Refueling is a two person operation. Maintain presence at all times when refueling;
- Use an absorbent pad around nozzle to catch splash-backs or drips. Clean up any spilled fuel with absorbent cloths;
- Maintain nozzle contact with fill pipe;
- DO NOT overfill the tank. Leave space to avoid spillage during normal motion of the vessel;
- When refueling at a pump station DO NOT use automatic stop device; DO NOT chock nozzles open;
- Make sure nozzle is dripped dried before it is removed from tank and hold nozzle upright to prevent fuel from dripping out of nozzle;
- Ensure that fuel is not discharged over the side or into any part of the vessel;
- Regularly check that boat fuel line connectors are tight;
- If oil is spilt in the bilge or hull, remove instantly using an absorbent pad; Keep drip trays clean;
- Maintain spill kits on every water craft at all times for instant use if needed;
- Use caution when pumping fuel into a portable fuel tank;
- Fill portable tanks at upland facilities or away from the water's edge;
- Only use a portable fuel tank you can handle easily and hold securely;
- When pouring from a portable tank, use a proper funnel or spout with matching capacity;
- Close the vent of portable fuel tanks when the engine is not in use or when the tank is stored;

- Store fuel in an area that is protected from inclement weather and away from water's edge;;
- Never use detergents or emulsifiers to deal with oil or fuel spills;
- Used oil absorbents should be disposed of properly at approved facilities.

SERVICING EQUIPMENT

- Follow the engine manufacturer's recommended maintenance schedule;
- Perform work over drop cloth; and under cover if raining;
- Deploy oil boom around water craft for overwater service activities;
- When servicing the engine ensure that fuel, oil and lubricants are cleaned up immediately;
- DO NOT store hoses or, parts over head or where they can't be observed.
- Never use detergents or emulsifiers to deal with oil or fuel spills.

BILGE PUMPING OPERATIONS

- Ensure bilge water is clean before pumping out;
- Oil absorbent pads can be placed in the bilge to absorb any oil or fuel that may be present;
- Commercial watercraft equipped with automatic bilge pumps must be inspected prior to discharge;
- Contaminated water shall be collected and delivered to an approved upland disposal facility;
- Never use detergents or emulsifiers to deal with oil or fuel spills.

Attachment F

CalPortland Batch Plant Spill Control Procedures

CalPortland Spill Control Procedures

Aberdeen Ready Mix Plant
Sand and Gravel General Permit
Permit #: WAG 50-1544

Cal Portland.
400 East Terminal Road
Aberdeen, Washington 98520
Grays Harbor County

Revised: April 2014

This document for the Aberdeen Plant is intended to serve as the *Spill Plan* required under Special Condition S5.D of the Sand and Gravel General Permit; and as the *Emergency Spill Control Plan* identified as BMP S1.80 in the SWMM. A separate oil SPCC plan is maintained for the larger Kiewit-General (K-G) site although there is obvious overlap with this plan.

According to the General Permit, a *Spill Plan* at a regulated facility should include the following:

- A description of the system in place for reporting spills and releases to responsible company and agency personnel;
- A list of equipment and materials that are present on site and that might leak or cause a spill;
- A description of facilities and measures that are intended to prevent, contain, or treat spills; and
- Specific procedures for handling and storing materials on site.

BMP S1.80 indicates that an *Emergency Spill Control Plan* should contain the following elements:

- A description of the facility and the nature of the activity at the facility;
- An indication of the general types of chemicals used or stored at the facility;
- A site plan showing the location of storage areas, storm drains and drainage areas, and any devices for controlling spills;
- Cleanup and notification procedures; and
- The identity of the person assigned responsibility for spill cleanup and notification.

Reporting Protocols:

The following subsections describe procedures for responding and reporting to emergencies. As indicated in the SWPPP, the Plant Superintendent is the individual responsible for acting as the site Emergency Coordinator (EC). If a reportable spill occurs, the EC will communicate this to CalPortland's Environmental manager who in turn will transmit the information to the Kiewit Environmental Compliance Manager Norma Hernandez or her designate at 602-516-3817. Kiewit in turn will make appropriate notification to relevant Agencies.

Site Description:

A description of Aberdeen Plant operations is provided in the SWPPP, along with the types of materials used at the site. Figure 2 depicts the location of storage areas, illustrates stormwater drainage patterns at the site, and shows where devices for controlling spills may be found. Facilities and measures that are intended to prevent, contain, or treat spills, as well as specific procedures for handling and storing materials on site are found in the SWPPP and are not repeated here. The site is designed to prevent spills from reaching waters of the state.

Spill Kit Locations:

Barrel style spill kits are found at the following location:

1. Batch Plant

All trucks and rolling stock in the plant are equipped with 5 gallon bucket size spill kits.

Emergency Procedures

Activation

An individual who discovers an emergency situation that involves a hazardous material, a hazardous substance, a dangerous waste, or a dangerous waste constituent shall immediately evacuate the area and notify a supervisor, the site Emergency Coordinator (EC), or an Alternate. The EC or Alternate will be responsible for determining whether it is necessary to implement the emergency response provisions of this *Emergency Spill Response Plan* in response to a particular emergency. The following list provides criteria that may be used to evaluate whether or not these provisions should be implemented:

1. A fire has occurred, and the fire:

   - Involves hazardous substances or materials;
   - Creates or causes the release of toxic fumes;
   - Spreads and ignites other hazardous substances or materials;
   - Spreads to off-site areas; or
   - Results in uncontrolled contaminated run-off from fire suppressant systems.

2. An explosion has occurred, and:

   - The explosion creates or causes the release of hazardous substances or materials, or ignites other hazardous substances or materials; or
   - Toxic gases have been formed.

3. A release of a hazardous substance as defined in the NPDES Sand and Gravel General Permit and the Pontoon Project RFP 2.8.3.2.3.2, has occurred, and it has:

   - Involved the release of flammable liquids or vapors, creating an explosion or fire hazard;
   - Involved the release of toxic liquids or vapors; or
   - Entered into the atmosphere, soil, surface waters, or groundwater.

When the emergency response provisions of the *Emergency Spill Response Plan* are implemented, the EC or the Alternate Emergency Coordinator will take the following steps:

- Identify the location, source, amount, and extent of the released materials;
- Assess possible hazards to human health and the environment, and evaluate necessary life saving measures and response team needs;
- Assess the need for evacuation of portions of the site or the entire site; and
- Activate the site notification system.

Cal Portland expects that any significant spills of hazardous materials will be cleaned up by response personnel trained to act as first responders, and acting in accordance with their training. Employees will be trained to utilize appropriate material handling and storage procedures during spill cleanup.

Fire

In the event of a fire that involves a hazardous material, a hazardous substance, a dangerous waste, or a dangerous waste constituent, on-scene personnel in the immediate area will:

- Ensure their own personal safety by evacuating the immediate area, and then account for other personnel.

- Activate the site notification system.

- Notify appropriate personnel

On-site fires that cannot be contained and extinguished by site personnel will require the intervention of the local Fire Department. Small fires involving materials that are easily identifiable as non-hazardous will be contained and extinguished by available personnel who are trained in the use of portable fire extinguishers. If a fire involves hazardous substances or appears to be spreading out of control, personnel will ensure their own safety by leaving the affected area and contacting the EC.

If an uncontrolled fire involves non-hazardous substances, the EC or Alternate will be responsible for the following actions:

- Shutting down those portions of the site affected or potentially affected by the fire, if necessary, and removing potential sources of ignition or sparks.

- Assisting the fire crew upon its arrival, and answering any questions about materials stored in the area.

- When necessary and as possible, arranging for the construction of temporary berms to contain non-hazardous substances or fire-fighting residues.

If an uncontrolled fire involves or potentially involves hazardous substances the procedures identified below will be followed.

Explosions

Since explosions are often accompanied by fire, and since additional explosions may occur, on scene personnel will:

- Ensure their personal safety by evacuation of the affected area.
- Activate the fire alarm.
- Prevent unauthorized entry into the area using barricades or other available traffic control devices.
- Notify the appropriate personnel.

The response team will evaluate further dangers that may be associated with fires, explosions, or material releases under the direction of the EC or Alternate.

Hazardous Substance Release

Personnel should not enter the area of a hazardous substance release unless fully protected by appropriate personal protective equipment. Individuals responding to a hazardous substance release shall report on-scene conditions and make recommendations to the EC or Alternate, who will then relay instructions to designated cleanup personnel. Only appropriately trained personnel will respond to mitigate and control hazardous substance releases.

The following steps will be taken by on-scene personnel prior to the appearance of emergency response personnel:

1. Ensure their personal safety by evacuating the immediate area.
2. Notify the EC and other response team personnel, identify the location of the release, and indicate if any injuries have occurred.
3. **If it can be done safely**, attempt to identify released substances.

The following general response procedures will be used by the EC and appropriately trained personnel upon arrival at the release site:

1. Isolate the release area from on-site personnel. Suggested isolation methods include using cones, stanchions, and tape; posting signs; and stationing personnel at safe distances to advise others of any dangers.

2. Assess the potential for fires, explosions, or additional releases.

3. **If it can be done safely**, undertake measures necessary to prevent recurrence and the spread of released materials to other areas. Appropriate measures include controlling access, inspecting affected equipment and operations, and isolating unaffected materials.

4. **If it can be done safely**, provide life saving measures, if necessary. If conditions are judged by the EC to be unsafe, personnel will evacuate the area, establish a safe perimeter zone, and prohibit access.

5. Evaluate area safety prior to entry by response team personnel.

6. Provide a briefing to assembled response team personnel detailing proposed cleanup procedures, protective clothing and emergency equipment requirements, and disposal methods for recovered materials.

Evacuation Plan

The following actions will be taken when the EC or Alternate orders an evacuation:

- Evacuate personnel from the affected areas along designated primary or alternative evacuation routes;
- Initiate a head count to identify absent personnel;
- Notify K-G Compliance Lead Norma Hernandez who will notify local emergency services, report any injuries, and arrange for emergency care; and
- Coordinate activities with the local law enforcement and fire departments, or other public emergency services as necessary.

Employees not involved with the emergency response will remain outside of the controlled area. The site will be reoccupied by personnel only at the direction of the EC or Alternate. Site activities will resume only when the hazard that necessitated the evacuation is controlled.

Evacuation Signals

Upon notification that an evacuation is necessary, employees of the affected portion of the Aberdeen Plant will exit immediately. Notification will consist of either verbal communication with personnel in the affected areas or activation of an evacuation alarm.

Evacuation Routes

Personnel will evacuate to areas that are not affected by the emergency, as determined by the EC or Alternate. Generally, personnel will evacuate over the most accessible route perpendicular to the prevailing wind direction, if they are stationed downwind of the emergency area; or upwind if they are stationed upwind.

If the EC or Alternate determines that evacuation of areas outside the site may be warranted, the EC or Alternate will notify local law enforcement and fire departments.

Corrective Actions

Immediately after an emergency involving the release of a regulated hazardous substance, or a fire or explosion involving a regulated hazardous substance, site personnel must provide for treating, storing, or disposing of recovered waste, contaminated soil or surface water, or any other material that results from the release, fire, or explosion. The EC or Alternate will direct emergency cleanup actions until relieved by the K-G Environmental Compliance Manager Norma Hernandez or her designate.

Any hazardous material or hazardous substance release will be cleaned up in accordance with applicable standards, and Cal Portland will undertake those measures needed to prevent recurrence. As part of any corrective action completed at the site, the Plant Superintendent will document the following:

- The areas and volumes of any affected media;
- The type and volume of waste released to the environment;
- The site conditions from the time of the release to final cleanup;
- Cleanup methods; and
- Methods used for storing and disposing of collected wastes.

The completed documentation will be maintained by the Washington Division Environmental Manager for a minimum of five years, and a copy provided to K-G's ECM for SR 520 Pontoons project documentation.

Arrangements with Local Authorities

K-G has made arrangements with the local fire department and other emergency response agencies and organizations to familiarize them with the layout of the Aberdeen Plant, the type and quantity of hazardous materials and hazardous substances maintained at the site, and proposed evacuation routes. Cal Portland and K-G will also make arrangements to familiarize local medical facilities with the types of injuries or illnesses that could occur as a result of operations at the site.

Spill Reporting Instruction

The K-G Environmental Compliance Lead or her designee shall make all official notifications of spills associated with the activities of Cal Portland to the responsible agencies. The first person aware of an emergency or a potential emergency shall immediately inform his or her supervisor or, if no communication device is available and a supervisor cannot be located, activate the alarm system. If alerted, the supervisor will notify the Plant Superintendent, who will notify the Washington Division Environmental Manager who will notify K-G's Environmental Compliance Manager. K-G will determine what other notification and reporting, as outlined below, is required.

National Response Center

The following actions shall be implemented by K-G's ECM or her designee. A reportable release or discharge must be reported immediately to the National Response Center (NRC) at **1-800-**

424-8802. K-G's ECM or (if delegated) The Washington Division Environmental Manager is responsible for notifying the NRC of a reportable release. The NRC will require the following basic information concerning the release:

- The name and telephone number of the caller;
- The name and address of the facility;
- The time and type of incident;
- The name and quantity of the material released, to the extent that this information is available;
- The extent of injuries, if any; and
- The possible hazards to human health or the environment outside the facility.

The NRC will relay, if necessary, required emergency information to the EPA and other Federal agencies charged with implementing the National Contingency Plan.

Environmental Protection Agency

If the NRC's number is not answered, a reportable release or discharge should be reported directly to EPA Region X, at **1-206-553-1263**. In addition, Federal regulations issued under the CWA require that the Regional Administrator of the EPA be notified of certain discharges of oil to navigable waters of the U.S. or adjoining shorelines. The Regional Administrator must be notified within 60 days whenever a facility regulated under 40 CFR 112 has discharged more than 1,000 gallons of oil due to a single spill, or twice discharged more than 42 gallons of oil. The notification must include the following information:

- The name of the facility;
- The name of the owner or operator of the facility;
- The facility location;
- The date on which operations at the facility commenced;
- The maximum oil storage or handling capacity of the facility, together with the normal daily use of oil;
- A description of the facility, including topographic maps, facility plot plans, and flow diagrams.
- A complete copy of the facility SPCC Plan, including any amendments;
- A description of the cause of the spill, including a failure analysis of the system or subsystem in which the failure occurred;
- A description of the corrective actions and countermeasures taken by the facility, including a description of any repairs to equipment;
- A discussion of any additional preventive measures taken or contemplated to reduce the possibility of a recurrence; and
- Any additional information related to the spill that the Regional Administrator may require.

This report must be sent to:

U.S. Environmental Protection Agency
1200 6th Avenue, Mail Stop HW-114
Seattle, Washington 98101

Attention: Site Response Section

According to Federal regulations, a complete copy of the information submitted to the Regional Administrator must also be submitted to the authorized state agency. In Washington, Ecology is the authorized state agency.

Washington State Department of Ecology

Washington State Law, as codified under RCW 90.56.280, requires immediate notification of the Division of Emergency Management of any spill of oil or a hazardous substance to waters of the State. The Division of Emergency Management can be contacted at **1-800-258-5990**.

Special Condition S6.E. of the Sand and Gravel General Permit stipulates that Ecology must be notified immediately of any failure to comply with the terms and conditions of the permit, whatever the cause. Moreover, a written report must be submitted to Ecology within 30 days describing the nature of the noncompliance, corrective actions taken or planned, steps taken to prevent a recurrence, and any other relevant information. For upsets or bypasses, this written report must be submitted within five days of the upset or bypass. Additionally, General Condition G5 of the permit requires a permitted facility to immediately notify Ecology of any spill, overflow, or bypass from any portion of a wastewater collection or treatment system. Ecology may be notified of permit noncompliance by contacting the site permit manager, **Mr. Chris Johnson**, at **1-360-407-7194**.

The State Dangerous Waste Regulations, which implement the Federal Resource Conservation and Recovery Act (RCRA) in Washington, require that Ecology be notified immediately of a release of dangerous waste or dangerous waste constituents, fire, or explosion that could threaten human heath or the environment outside a regulated facility. The Southwest Regional Office of Ecology may be notified by calling **1-360-407-6300**. The initial notification report should include the following information:

- The name, address, and telephone number of the facility;
- The date, time, and type of incident;
- The name and quantity of the materials involved;
- The extent of injuries, if any; and
- An assessment of actual or potential hazards to human health or the environment.

Finally, under the State Model Toxics Control Act (MTCA), a release of a hazardous substance must be reported to Ecology within 90 days of discovery, unless the release has been previously reported to the EPA. The definition of a hazardous substance under MTCA includes petroleum and petroleum products. The report to Ecology must include:

- An identification of the hazardous substance and the location of the release;
- A description of the circumstances of the release and its discovery; and
- A summary of any remedial actions planned, underway or completed.

This report should be directed to a representative of the Toxics Cleanup Program at the appropriate Southwest Regional Ecology regional office.

This report must be sent to:
Washington Department of Ecology
Attn: MTCA Cleanup Coordinator
PO Box 47600
Olympia, WA 98504

SARA Title III Section 304 Reporting Requirements

If a release of a CERCLA hazardous substance or a SARA extremely hazardous substance equals or exceeds its specific RQ, then the Local Emergency Planning Committee (LEPC) and State Emergency Response Commission (SERC) must be notified. This notification shall take place immediately and shall contain the following information:

- The name of the hazardous substances involved in the release.
- Whether the hazardous substances involved are considered to be extremely hazardous substances.
- The estimated quantity of the release.
- The medium into which the substances were released: air, soil, surface water, or groundwater.
- The known or anticipated health risks and medical advice for exposed individuals.
- The proper precautions that should be taken as a result of the release.

A follow-up report shall be submitted within 15 days that provides the following:

- An update of the previously supplied information.
- A description of additional actions required to respond to and contain the release.
- The known or anticipated health risks as a result of the release and medical advice for exposed individuals.

Notification Forms

K-G's forms and reporting procedures will be used.

Emergency Contacts

Cal Portland
Aberdeen Plant
400 East Terminal Road
Aberdeen, Washington 98520

Contact	Phone Numbers			
	Office	Cell or Mobile	Pager	Home
Cal Portland				
Plant Superintendent/EC		253-318-2711		
Washington Division Environmental Mgr.	206-764-3021	206-914-9764		
K-G Environmental Compliance Manager	253-943-4040	602-516-3817		
Washington Division Safety Mgr.	206-764-3000	206-715-0324		
Operations Mgr.	206-764-3107	805-310-7857		
General Counsel	626-691-2285	626-483-1314		
Outside Agencies				
National Response Center	800-424-8802			
U.S. Environmental Protection Agency	206-553-1263			
State Emergency Response Commission	800-258-5990			
Dept. of Ecology Southwest Regional Office	360-407-6300			
Ecology Site Permit Mgr.	360-407-7194			
Olympic Clean Air Agency	800-422-5623			
City of Aberdeen	360-537-3228			
Local Emergency Planning Committee	360-532-1254			
Local Fire and Police	911			
Response Contractors				
NRC Environmental Services, Inc.	800-337-7455	Cowlitz Clean	360-532-4309	

Attachment G

Inspection Forms

	Title:	HAZARDOUS WASTE ACCUMULATION AREA INSPECTION FORM	ESP#	08-D3
	Department:	Environmental	Revision:	00
			Page:	1 of 1

Project Name: 520 Pontoons Construction	**Job Number:** 323-14285
Inspected by:	**Inspection Date:** **Time:**

This Site is currently: ❑CESQG (<220 lbs/mo. haz. waste) ❑MQG (220 lbs to 2,200 lbs/mo. Haz. waste) ❑LQG (>2,200 lbs/mo. haz. waste)

	REQUIREMENTS WHILE ACCUMULATING ON SITE	Requirement Met ? YES	NO	N/A	DESCRIBE CORRECTIVE MEASURES	DATE CORRECTED
HAZARDOUS WASTE LABELS	Hazardous Waste containers are labeled "Hazardous Waste"					
	Labels describe the contents, and is legible					
	Hazardous Waste labels identify Major Hazards (Toxic, Reactive, Ignitable, Corrosive), and is legible					
	Hazardous Waste Labels indicate Accumulation Start Date (legible)					
	Accumulation Start Dates are within the allowable time limits (180 days for MQG, 90 days for LQG)					
UNIVERSAL WASTE LABELS	Used Batteries (alkaline, ni-cad, lithium, rechargeables) are labeled "Universal Waste: Used Batteries" (legible)					
	Spent Fluorescent bulbs containers are labeled "Universal Waste: Waste Fluorescent Bulbs" (legible)					
	Spent HID bulbs, High Pressure Sodium bulbs, Metal Halide, Neon bulbs are labeled "Universal Waste: Waste Lamps" (legible)					
	All Universal Waste labels indicate Accumulation Start Dates (legible)					
	Accumulation Start Dates are within 1-year allowable time limit					
NON-HAZARDOUS	Containers with regulated waste that is non-hazardous are labeled "Non-Hazardous"					
	Regulated waste Non-Hazardous Wastes labels describing the contents, and is legible					
	Empty containers are labeled "Empty"					
CONTAINERS	All containers are kept closed unless removing or adding material					
	Containers are compatible with their contents					
	There is a minimum aisle space of 30" between rows of drums					
	Secondary Containment is provided for containers storing liquids					
	Containers are in good condition (no dents, corrosion, bulges, or other deterioration)					
	Incompatible hazardous wastes are segregated or stored separately					
OTHER	Signage installed: "Hazardous Waste – Authorized Personnel Only"					
	Area is free of debris, clean.					
	There are no leaks or spills					
	Secondary containment devices are not holding excess rainwater, and contained rainwater is not oily or contaminated					

	Title:	WEEKLY FUEL STORAGE AREA INSPECTION FORM	ESP#	07-D
	Department:	Environmental	Revision:	00
			Page:	1 of 1

Project Name: 520 Pontoons Construction	**Job Number:** 323-14285
Inspected by:	**Inspection Date:** **Time:**

REQUIREMENTS	Requirement Met ?			DESCRIBE CORRECTIVE MEASURES	DATE CORRECTED
	YES	NO	N/A		
1) Petroleum products are managed to reduce adverse impacts on stormwater quality.					
2) Clearances are sufficient for safe operations, service, & material handling.					
3) Petroleum dispensing hoses and fittings are not leaking.					
4) Proper signage is in place and legible.					
5) Grounding is used during transfer of flammable liquids.					
6) Fuel dispensing nozzles are hung up					
7) Bulk tanks are in good condition and do not show signs of leaking.					
8) Tank liquid level gauges are in proper working order.					
9) All valve seals and gaskets are tight and show no sign of leakage.					
10) Secondary containment is in good condition and rainwater accumulation is drained appropriately.					
11) Fuel Storage areas are securely fenced and facility lighting provides adequate illumination at night.					
12) Spill Kits present and adequately supplied.					
13) Oil-water separator is in good condition, does not yet need cleaning					

Form 728 (12-11)

TOWER CRANE DAILY/MONTHLY INSPECTION

Unit No. _____
Make _____
Model _____
Start Hours _____
End Hours _____

Date _____
Shift Start Time _____
Shift End Time _____
Inspector (Print) _____

NO.	ITEM TO BE CHECKED	Initial if OK	Repair Required	*Monthly Inspection
1.	Are you an Authorized Operator for this machine?			
	GENERATOR			
2.	Check engine oil, coolant and fuel for proper level and leaks			
3.	Check belts, hoses, and power cables from generator to distribution box			
	TRAVELER (IF EQUIPPED)			
4.	Inspect rails and suporting surface			
5.	Inspect clips, hardware, stops, clamps, bumpers, and limit strike ramps			
6.	Inspect traveler frame, diagonal supports, mast connections, etc.			
7.	Remove bogie rail clamps and re-install at the end of the shift			
8.	Remove any material left and or stored on rails			
	MAST			
9.	Check anchor bolts on base, mast connections, ladders, and landings			*
	SLEWING ASSEMBLY			
10.	Check slewing assembly for excess grease or signs of wear			
11.	Check mounting bolts for movement			
12.	Inspect electrical slip ring case (External Inspection Only!)			
13.	Check swing brake for wear			
14.	Check swing gear box for proper oil level and leaks			
	TOWER TOP AND JIB			
15.	Inspect all connections, sheaves and pendants			*
16.	Inspect wire rope condition, reeving and lube			*
17.	Inspect load block and hook for condition, safety latch operation			*
	COUNTER JIB AND HOISTING MACHINERY			
18.	Check all connections			
19.	Check power and control cords for damage			
20.	Check hoisting and trolley gear cases for leaks			
21.	Hoist brake pad wear and contamination			
22.	Hoist drum mounting for cracks and damage			
23.	Inspect service crane operation and condition			
	COUNTERWEIGHT MOUNTING			
24.	Counterweight mounting for cracking and movement			
	OPERATORS CAB			
25.	All controls for proper adjustment and operation			
26.	Electrical equipment for operation and condition			
27.	Wind meter working properly			
28.	Radio system in good working order, perform radio check			
29.	Cab glass and wipers in good condition			
30.	Operators manual, current annual inspection, and S/N specific load chart			
31.	Fire extinguisher			
32.	General housekeeping in cab			
	TEST TO BE MADE DAILY BEFORE OPERATING			
33.	All controls for proper adjustment and operation			
34.	Hoist upper limit switch (anti-two block) and gear brake			*
35.	Trolley in and out limit switch and trolley brake			
36.	Traveler limit switches and brake operation (Travelers only!)			
37.	Horn operational			

*Monthly Insp.	Initial if OK	
Wire Rope:		Inspector (print) _____
Anchors & Pins		Crane Incident Reported Today? Yes ☐ No ☐

Additional Comments: _____

_____ The condition of this unit is satisfactory

_____ The items marked should be repaired to ensure the safe operation of this unit

Operator Signature: _____

_____ The items marked have been repaired

_____ Repairs to the items marked are not required for the safe operation of this unit

Mechanic Signature: _____ Date: _____

Operator Signature: _____ Date: _____

White Copy- Equipment Department Canary Copy - Stays In Machine

LATTICE BOOM CRANE DAILY/MONTHLY INSPECTION

Unit No. _____ Date _____
Make _____ Shift Start Time _____
Model _____ Shift End Time _____
Start Hours _____ Inspector (Print) _____
End Hours _____

NO.	ITEM TO BE CHECKED	Initial if OK	Repair Required	*Monthly Inspection
1.	Are you an Authorized Operator for this machine?			
	LOWER WORKS			
2.	Roller path, clean and lubricated			
3.	House and hook rollers for adjustment and lube			
4.	Drive chains and tracks for adjustment and lube			
5.	Tumblers, idlers and rollers lube and condition			
6.	Drive motors and hoses for leaks and damage			
7.	Carbody and track pads for cracks and broken bolts			
	UPPER WORKS			
8.	Check coolant and fuel level for proper level and leaks, air filter indicator			
9.	Check engine, converter and hydraulic oil for proper level and leaks			
10.	Sump, chain and gear case oil levels (drain water as req.)			
11.	Travel alarm			
12.	Air compressor oil level (drain moisture from tank)			
13.	General lubrication			
14.	All controls for adjustment and operation			
15.	All brakes and clutches for wear and contamination			
16.	Check swing brake and mechanical house lock			
17.	Hydraulic and air lines for leaks and abrasion			
18.	Gauges, instruments, alarms and electrical for proper operation			
19.	**Safety devices for condition and operation:**			
	(a) Drum rotation indicators			
	(b) Boom, Jib and Mast kick outs (test)			
	(c) Anti-two block system and alarm (test)			*
	(d) Boom angle indicator - manual and electronic			
	(e) Fire extinguisher			
	(f) S/N specific load charts			
	(g) Safety tie back cable			
	(h) Level indicators			
	(i) Swing radius guard			
	(j) Foot pedal, hoist brakes must have locks			
	(j) Horn operational			
20.	Boom/ jib cords and lacing for cracks, damage			*
21.	Boom stops, mast and gantry structural cracks and lube			
22.	Wire rope condition, reeving and lube (Main, whip, Aux, boom hoist)			*
23.	Pendant and backstay lines			
24.	Load block and headache ball condition and lubrication			*
25.	Hooks for deformation cracks and safety latches			
26.	Sheaves and boom connections			*
27.	Cab glass condition and wiper			
28.	Structural cracks and damage			*
29.	Generator oil and coolant level and leaks			
30.	Check for operations and maintenance manual			
31.	Check ground conditions for proper support			
32.	Check that crane is level within manufacturer's tolerance for configuration			
33.	Trial lift performed (personnel hoisting only)			

*Monthly Insp.	Initial if OK	
Wire Rope:		Inspector (print)
Boom:		Crane Incident Reported Today? Yes ☐ No ☐
		Additional Comments:

_____ The condition of this unit is satisfactory

_____ The items marked should be repaired to ensure the safe operation of this unit

Operator Signature: _____

_____ The items marked have been repaired

_____ Repairs to the items marked are not required for the safe operation of this unit

Mechanic Signature: _____ Date: _____

Operator Signature: _____ Date: _____

White Copy- Equipment Department Canary Copy - Stays in Machine

Form 735 (8-08)

FORKLIFT DAILY INSPECTION RECORD
(ARTICULATED, EXTENDABLE, AND FIXED STRAIGHT MAST)

MACHINE NO._____ HOUR METER READING_____

DATE_____ INSPECTOR/OPERATOR_____

MAKE_____ MODEL_____

NO.	ITEMS TO BE CHECKED	OK	REPAIR REQUIRED	SAFETY ISSUE	REPAIR DATE	BY
1.	ARE YOU A QUALIFIED & DESIGNATED OPERATOR ON THIS MACHINE					
2.	Check oil and coolant levels and look for leaks					
3.	Check belts and radiator hoses for condition					
4.	Check hydraulic hose and fitting condition					
5.	Check exhaust system for leaks					
6.	Check tire and wheel condition - proper inflation					
7.	Check battery connections and mounting					
8.	Check electrical system and all lights					
9.	Check steering system operation					
10.	Check for loose/missing bolts, guards, etc.					
11.	Check fire extinguisher and bracket					
12.	Check condition of glass, wipers, and clean windshield					
13.	Check operation of all instruments and gauges					
14.	Check for proper operation of back up alarm					
15.	Check service and parking brake for proper operation					
16.	Check if machine is being properly lubricated					
17.	Check for load capacity chart					
18.	Check warning & operation decals are in place and readable					
19.	Check condition and operation of all controls					
20.	Check seat and seat belt condition and operation					
21.	Check quick coupler for operation and cracks					
22.	Check all steps and grab handles					
23.	Check all hydraulic cylinders for leaks and damage					
24.	Check that operator manual is in machine					

CHECK ALL ITEMS THAT APPLY

1.	Do forks stay level with machine					
2.	Check attachments and coupler for cracks and condition					
3.	Are articulation springs in place					
4.	Do the attachments lock into coupler properly					
5.	Check boom sections for cracks and damage					
6.	Check attachment and boom pins and pin retainers					
7.	Check boom wear pads, guides, chains, and rollers					
8.	Check condition and operation of outriggers					
9.	Check for boom angle and length indicator					
10.	Check forks for deformation, cracks, and straightness					

DO NOT EXCEED MACHINE CAPACITY

List supplies on back of sheet	Make any remarks on back of sheet

IT IS THE RESPONSIBILITY OF THE OPERATOR OF THE MACHINE TO TURN IN THIS FORM AT THE END OF EVERY SHIFT TO YOUR SUPERVISOR OR THE MAINTENANCE DEPARTMENT. REPORT ANY UNSAFE CONDITIONS FOUND ON THIS MACHINE IMMEDIATELY TO YOUR SUPERVISOR PRIOR TO OPERATION.

Attachment H

Spill Incident Report

	Title:	SPILL INCIDENT REPORTING FORM	ESP#	07-G2c
	Department:	Environmental	Revision:	00
			Page:	1 of 3

Project Name: 520 Pontoons Construction	**Job Number:** 323-14285
First Reported by:	**Date of Spill:**
Incident Reporter's Name:	**Time of Spill:**
SPILL DESCRIPTION:	

ON SCENE CONDITIONS		
Weather :	Temperature (*F*):	Visibility (*miles*):
Wind Direction:		Wind Speed (*mph*):
Tide: (*for water based spills only*)		Current (kts): (*for water based spills only)*

SPILL INFORMATION			
Type of Substance Released:			
MSDS included?: YES NO *if not, explain:*			
Substance Released To: *(circle all that apply)*			
Bare Ground / Paved Surface / Storm Drain / Bay / Ocean / River or Stream / Wetland or Marsh / Other: (*describe)*			
Name of Bay, River, Stream, Wetland or Marsh: (*if available*)			
Volume Released: (*gallons*)		Volume Recovered: (*gallons*)	
Size of spill:		Appearance of Spill:	
Equipment Involved in Spill? YES NO			
Equipment Information:	Make:	Model:	

Notice of Violation, Citation or Other Regulatory Information Issued On-Site (*circle one*) YES NO
(*if Yes, provide copy as appendix to this report)*

RESOURCE ASSESSMENT

Injuries observed or reported: (*circle one*) YES NO
(*if Yes, provide description)*

Ecological impacts observed or reported: (*circle one*) YES *NO*
(*if Yes, provide description)*

INCIDENT DESCRIPTION

(Provide detailed description of incident, actions taken and timelines)

Project Name: 520 Pontoons Construction	**Job Number:** 323-14285
First Reported by:	**Date of Spill:**
Incident Reporter's Name:	**Time of Spill:**
SPILL DESCRIPTION:	

CAUSES AND CONTRIBUTING FACTORS

(Provide brief analysis of any known causes and contributing factors the incident that at a minimum consider, human error, equipment or technology failure, and/or maintenance or inspection deficiencies

PREVENTION MEASURES

(Provide description of measures taken to prevent a recurrence of incident, including changes to the operating or maintenance procedure, personnel policies, etc.)

KIEWIT-GENERAL CONSTRUCTION- INTERNAL SPILL REPORTING CONTACT RECORD

Name of Contact	Time/Date of Contact	Comments

REGULATORY AGENCY-SPILL REPORTING CONTACT RECORD

Name of Contact	Time/Date of Contact	Comments

REGULATOR INFORMATION REQUESTS

Information requested by agency representative (*circle one*) YES NO N/A
(if Yes, provide explanation)

Eyewitness Interviews Conducted On-site (*circle one*) YES NO *N/A*
if Yes, provide interviewer and interviewee names with contact information)

Name of Interviewer	Contact Information	Name of Interviewee	Comments

Project Name: 520 Pontoons Construction	**Job Number:** 323-14285
First Reported by:	**Date of Spill:**
Incident Reporter's Name:	**Time of Spill:**
SPILL DESCRIPTION:	

INCIDENT CLOSE-OUT	
Spill kit supplies replenished (*circle one*) *YES* NO N/A	
K-G Waste stream profile prepared for spill materials (*circle one*) YES NO N/A To be prepared	
Spill materials stored in approved container and properly labeled (*circle one*) *YES* NO N/A	
Transporter Name:	Disposal Facility Name*:*
Spill Incident Reporting Form (SIRF) sent to KBM District Office (*circle one*) YES *NO* Date: *(if No, provide explanation)*	

PHOTOLOG
Are photographs of the spill included as part of this report (*circle one*) YES NO *(if No, provide explanation)*

REGULATORY AGENCY-FOLLOW-UP REPORTING CONTACT RECORD		
Name of Contact	Time/Date of Contact	Comments

Is an ECAP Report required per WSDOT RFP Appendix E3 "Environmental Compliance Procedure"?

Attachment I

EPA List of Lists

United States
Environmental Protection
Agency

Office of Solid Waste
and Emergency Response

EPA 550-B-12-003
October 2012
www.epa.gov/emergencies

LIST OF LISTS

Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112(r) of the Clean Air Act

- EPCRA Section 302 Extremely Hazardous Substances
- CERCLA Hazardous Substances
- EPCRA Section 313 Toxic Chemicals
- CAA 112(r) Regulated Chemicals For Accidental Release Prevention

TABLE OF CONTENTS

LIST OF LISTS

Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-to-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112(r) of the Clean Air Act

This consolidated chemical list includes chemicals subject to reporting requirements under the Emergency Planning and Community Right-to-Know Act (EPCRA), also known as Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA), the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and section 112(r) of the Clean Air Act (CAA). This consolidated list does not include all hazardous chemicals subject to the reporting requirements in EPCRA sections 311 and 312, for which material safety data sheets (MSDS) must be developed under the Hazard Communication Standard (29 CFR1910.1200). These hazardous chemicals are identified by broad criteria, rather than by enumeration. There are over 500,000 products that satisfy the criteria. See 40 CFR Part 370 for more information.

This consolidated list has been prepared to help firms handling chemicals determine whether they need to submit reports under sections 302 and 313 of EPCRA and determine if releases of chemicals are reportable under section 102 and 103 of CERCLA and section 304 of EPCRA. It will also help firms determine whether they will be subject to accident prevention regulations under CAA section 112(r). Separate lists are also provided of Resource Conservation and Recovery Act (RCRA) waste streams and unlisted hazardous wastes, of radionuclides reportable under CERCLA and of definitions or explanation of chemical categories listed under EPCRA section 313 and CERCLA. These lists should be used as a reference tool, not as a definitive source of compliance information. Compliance information for EPCRA is published in the Code of Federal Regulations (CFR), 40 CFR parts 355, 370, and 372. Compliance information for CERCLA is published in 40 CFR part 302 and for CAA section 112(r) is published in 40 CFR part 68.

The chemicals on the consolidated list are ordered both by the Chemical Abstracts Service (CAS) registry number and alphabetically. Categories of chemicals which generally do not have CAS registry numbers, but which are cited under CERCLA, have N.A. listed in place of the CAS number. If the category of chemical is an EPCRA section 313, then the section 313 category code is also included in the CAS number column.

The lists include chemicals referenced under five federal statutory provisions, discussed below. More than one chemical name may be listed for one CAS number because the same chemical may appear on different lists under different names. For example, for CAS number 8001-35-2, the names toxaphene (from the section 313 list), camphechlor (from the section 302 list), and camphene, octachloro-(from the CERCLA list) all appear on this consolidated list. The chemical names on the consolidated lists generally are those names used in the regulatory programs developed under EPCRA, CERCLA, and CAA section 112(r), but each chemical may have other synonyms that do not appear on these lists.

(1) **EPCRA Section 302 Extremely Hazardous Substances (EHSs)**

The presence of EHSs in quantities at or above the Threshold Planning Quantity (TPQ) requires certain emergency planning activities to be conducted. The extremely hazardous substances and their TPQs are listed in 40 CFR part 355, Appendices A and B. For section 302 EHSs, Local Emergency Planning Committees (LEPCs) must develop emergency response plans and facility owner or operator must notify the State Emergency Response Commission (SERC) or Tribal Emergency Response Commission and their LEPC if a chemical is present at the facility or above the EHS's TPQ. Additionally if the TPQ is equaled or exceeded, facilities with a listed EHS are subject to the reporting requirements of EPCRA section 311 (provide material safety data sheet or a list of covered chemicals to the SERC or TERC, LEPC, and local fire department) and section 312 (submit inventory form -Tier I or Tier II). The minimum threshold for section 311-312 reporting for EHS substances is 500 pounds or the TPQ, whichever is less.

TPQ. The consolidated list presents the TPQ (in pounds) for section 302 chemicals in the column following the CAS number. For chemicals that are solids, there are two TPQs given (e.g., 500/10,000). In these cases, the lower quantity applies for solids in powder form with particle size less than 100 microns, or if the substance is in solution or in molten form. Otherwise, the 10,000 pound TPQ applies. If a solid EHS is in molten form, the facility must multiply the amount of EHS on-site by 0.3 before comparing to the lower listed TPQ. If a solid EHS is in solution form, the facility must multiply amount EHS on-site by 0.2 before comparing to the lower listed TPQ. The reducing factors of 0.2 for molten solids and 0.3 for solids in solution are not to be used for the 12 solid reactive chemicals are noted by footnote "a" in Appendix A and B in 40 CFR part 355.

EHS RQ. Releases of reportable quantities (RQ) of EHSs are subject to state and local reporting under section 304 of EPCRA. EPA has adjusted RQs for EHSs without CERCLA RQs to levels equal to their TPQs. The EHS RQ column lists these adjusted RQs for EHSs not listed under CERCLA and the CERCLA RQs for those EHSs that are CERCLA hazardous substances (see the next section for a discussion of CERCLA RQs).

Note that ammonium hydroxide is not covered under section 302; the EHS RQ is based on anhydrous ammonia. Ammonium hydroxide (which is also known as aqueous ammonia) is subject to CERCLA, with its own RQ.

(2) **CERCLA Hazardous Substances**

Releases of CERCLA hazardous substances, in quantities equal to or greater than their reportable quantity (RQ), are subject to reporting to the National Response Center under CERCLA. Notification requirements for these releases are found in 40 CFR 302. Such releases are also subject to state and local reporting under section 304 of EPCRA. CERCLA hazardous substances, and their reportable quantities, are listed in 40 CFR part 302, Table 302.4. Radionuclides listed under CERCLA are provided in a separate list in Appendix B of this document, with RQs in Curies. Chemical categories under CERCLA (including metal compound categories), which have N.A. listed for the CAS Number in the consolidated table,

are also listed in Appendix E of this document with further explanation of each chemical category, where information was available.

RQ. The CERCLA RQ column in the consolidated list shows the RQs (in pounds) for chemicals that are CERCLA hazardous substances.

Metals. For metals listed under CERCLA (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, and zinc), no reporting of releases of the solid form is required if the mean diameter of the pieces of the solid metal released is greater than 100 micrometers (0.004 inches) (Ref: Footnote after Table 302.4 in 40 CFR 302.4). The RQs shown on the consolidated list apply to smaller particles.

Note that the consolidated list does not include all CERCLA regulatory synonyms. See 40 CFR part 302, Table 302.4 for a complete list.

(3) **CAA Section 112(r) List of Substances for Accidental Release Prevention**

Under the accident prevention provisions of section 112(r) of the CAA, EPA developed a list of 77 toxic substances and 63 flammable substances. Threshold quantities (TQs) were established for these substances. The list and TQs identify processes subject to accident prevention regulations. The list of substances and TQs and the requirements for risk management programs for accidental release prevention are found in 40 CFR part 68. This consolidated list includes both the common name for each listed chemical under section 112(r) and the chemical name, if different from the common name, as separate listings.

The CAA section 112(r) list includes several substances in solution that are covered only in concentrations above a specified level. These substances include ammonia (concentration 20% or greater) (CAS number 7664-41-7); hydrochloric acid (37% or greater) (7647-01-0); hydrogen fluoride/hydrofluoric acid (50% or greater) (7664-39-3); and nitric acid (80% or greater) (7697-37-2). Hydrogen chloride (anhydrous) and ammonia (anhydrous) are listed, in addition to the solutions of these substances, with different TQs. Only the anhydrous form of sulfur dioxide (7446-09-5) is covered. These substances are presented on the consolidated list with the concentration limit or specified form (e.g., anhydrous), as they are listed under CAA section 112(r). Flammable fuels used as a fuel or held for sale as a fuel at a retail facility are not subject to the rule.

TQ. The CAA section 112(r) TQ column in the consolidated list shows the TQs (in pounds) for chemicals listed for accidental release prevention. The TQ applies to the quantity of substance in a process, not at the facility as a whole.

(4) **EPCRA Section 313 Toxic Chemicals (a.k.a Toxics Release Inventory (TRI) Chemicals)**

Emissions, transfers, and waste management data for chemicals listed under section 313 must be reported annually as part of the community right-to-know provisions of EPCRA (40 CFR part 372). These reports are also known as Toxics Release Inventory (TRI) reports.

Section 313. The notation "313" in the column for section 313 indicates that the chemical is subject to reporting under section 313 and section 6607 of the Pollution Prevention Act under the name listed. In cases where a chemical is listed under section 313 with a second name in parentheses or brackets, the second name is included on this consolidated list with an "X" in the section 313 column. An "X" in this column also may indicate that the same chemical with the same CAS number appears on another list with a different chemical name.

Diisocyanates, Dioxins and Dioxin-like Compounds, and PACs. In the November 30, 1994, expansion of the section 313 list, 20 specific chemicals were added as members of the diisocyanate category, and 19 specific chemicals were added as members of the polycyclic aromatic compounds (PAC) category. The PAC category was expanded to 25 total chemicals by additions made in October 1999 and November 2010. In October 1999, EPA added a category of dioxin and dioxin-like compounds that includes 17 specific chemicals. These chemicals are included in the CAS order listing on this consolidated list, although chemicals belonging to these categories are reportable under section 313 by category, rather than by individual chemical name. The symbol "#" following the "313" notation in the section 313 column identifies diisocyanates, the symbol "!" identifies the dioxin and dioxin-like compounds, and the symbol "+" identifies PACs, as noted in the Summary of Codes.

Ammonium Salts. The EPCRA section listing for ammonia includes the following qualifier "includes anhydrous ammonia and aqueous ammonia from water dissociable ammonium salts and other sources; 10 percent of total aqueous ammonia is reportable under this listing." The qualifier for ammonia means that anhydrous forms of ammonia are 100% reportable and aqueous forms are limited to 10% of total aqueous ammonia. Therefore, when determining threshold and releases and other waste management quantities all anhydrous ammonia is included but only 10% of total aqueous ammonia is included. Any evaporation of ammonia from aqueous ammonia solutions is considered anhydrous ammonia and should be included in threshold determinations and release and other waste management calculations.

In this document ammonium salts are not specifically identified as being reportable EPCRA section 313 chemicals. However, water dissociable ammonia salts, such as ammonium chloride, are reportable if they are placed in water. When ammonium salts are placed in water, reportable aqueous ammonia is manufactured. As indicated in the ammonia qualifier, all aqueous ammonia solutions from water dissociable ammonium salts are covered by the ammonia listing. For example, ammonium chloride is a water-dissociable ammonium salt and reportable aqueous ammonia will be manufactured when it is placed in water.

Unlike other ammonium salts, ammonium hydroxide is specifically identified as being a reportable EPCRA section 313 chemical. This is because the chemical ammonium hydroxide (NH_4OH) is a misnomer. It is a common name used to describe a solution of ammonia in water (i.e., aqueous ammonia), typically a concentrated solution of 28 to 30 percent ammonia. EPA has consistently responded to questions regarding the reportability of these purported ammonium hydroxide solutions under the EPCRA section 313 ammonia listing by stating that these are 28 to 30 percent solutions of ammonia in water and that the solutions are reportable under the EPCRA section 313 ammonia listing. For a more detailed discussion, see page 34175 of the Federal Register final rule of June 30, 1995 (60 FR 34172). (See also EPA's EPCRA

section 313, *Guidance for Reporting Aqueous Ammonia*, EPA 745-R00-005, http://www.epa.gov/tri/guide_docs/index.htm

Stayed TRI Chemicals. There are two EPRCA section 313 chemicals that are listed in the CFR but for which the Agency has issued an administrative stay that excludes them from reporting until the stays are lifted. These chemicals, identified by "313s" in the Sec. 313 table column, are methyl mercaptan (CAS number 74-93-1), and 2,2-dibromo-3nitrilopropionamide (CAS number 10222-01-2). Check the TRI Web site http://www.epa.gov/tri/trichemicals/index.htm for updated regulatory information. On October 11, 2011, EPA reinstated the TRI reporting requirements for hydrogen sulfide. This action will be effective for the 2012 TRI reporting year, with the first 2012 TRI reports due from facilities by July 1, 2013. For more information, see http://www.epa.gov/tri/lawsandregs/hydrogensulfide/indexf.html

TRI Reporting Thresholds. Reporting under EPCRA section 313 is triggered by the quantity of a chemical that is manufactured, processed, or otherwise used during the calendar year. For most TRI chemicals, the thresholds are 25,000 pounds manufactured or processed or 10,000 pound otherwise used. Sixteen TRI chemicals and four TRI chemical categories that meet the criteria for persistence and bioaccumulation have lower thresholds, such as 10 or 100 pounds and 0.1 grams. These 20 chemical listings and their reporting thresholds can be found at http://www.epa.gov/tri/trichemicals/pbt%20chemicals/pbt_chem_list.htm

(5) **Chemical Categories**

The CERCLA and EPCRA section 313 lists include a number of chemical categories as well as specific chemicals. Categories appear on this consolidated list at the beginning of the CAS number order listing. The specific chemicals or substances that are included in the CERCLA category Radionuclides can be found in Appendix B. Appendix D contains explanations and definitions for the EPCRA section 313 (TRI) chemical categories. For the CERCLA listed categories reported with CAS number of N.A., Appendix E contains information available on the CERCLA chemical categories from their original statutory and regulatory sources.

Specific chemicals listed as members of the diisocyanates, dioxin and dioxin-like compounds, and PAC categories under EPCRA section 313 are included in the list of specific chemicals by CAS number, not in the category listing.

EPA has attempted to identify those chemicals on the consolidated list that are clearly reportable under one or more of the EPCRA section 313 (TRI) chemical categories. For example, mercuric acetate (CAS number 1600-27-7), listed under section 302, is not specifically listed under section 313, but is reportable under the section 313 "Mercury Compounds" category (no CAS number). Listed chemicals that have been identified as being reportable under one or more EPCRA section 313 categories are identified by "313c" in the Sec. 313 table column.

The chemicals on the consolidated list have not been systematically evaluated to determine whether they fall into any of the CERCLA listed categories. Some chemicals not specifically listed under CERCLA may be subject to CERCLA reporting as part of a category. For

example, strychnine sulfate (CAS number 60-41-3), listed under EPCRA section 302, is not individually listed on the CERCLA list, but is subject to CERCLA reporting under the listing for strychnine and salts (CAS number 57-24-9), with an RQ of 10 pounds. Similarly, nicotine sulfate (CAS number 65-30-5) is subject to CERCLA reporting under the listing for nicotine and salts (CAS number 54-11-5, RQ 100 pounds), and warfarin sodium (CAS number 129-06-6) is subject to CERCLA reporting under the listing for warfarin and salts, concentration >0.3% (CAS number 81-81-2, RQ 100 pounds).

Note that some CERCLA listings, although they include CAS numbers, are for general categories and are not restricted to the specific CAS number (e.g., warfarin and salts). The CERCLA list also includes a number of generic categories that have not been assigned RQs; chemicals falling into these categories are considered CERCLA hazardous substances, but they are not required to be reported under CERCLA unless otherwise listed under CERCLA with an RQ.

(6) **RCRA Hazardous Wastes**

The consolidated list includes specific chemicals from the RCRA P and U lists only (40 CFR 261.33). This listing is provided as an indicator that companies may already have data on a specific chemical that may be useful for EPCRA reporting. It is not intended to be a comprehensive list of RCRA P and U chemicals. RCRA hazardous wastes consisting of waste streams on the F and K lists, and wastes exhibiting the characteristics of ignitability, corrosivity, reactivity, and toxicity, are provided in Appendix C in this document. This list also includes K181 hazardous waste with a statutory one-pound RQ (indicated by an asterisk "*" following the RQ." The descriptions of the F and K waste streams have been abbreviated; see 40 CFR part 302, Table 302.4, or 40 CFR part 261 for complete descriptions.

RCRA Code. The letter-and-digit code in the RCRA Code column is the chemical's RCRA hazardous waste code.

Summary of Codes

Codes in Section 313 column

+ Member of EPCRA Section 313 PAC category.

Member of EPCRA Section 313 diisocyanate category.

c Although not listed by name and CAS number, this chemical is reportable under one or more of the EPCRA section 313 chemical categories.

s Indicates that this chemical is currently under an administrative stay of the EPCRA section 313 reporting requirements, therefore, no Toxics Release Inventory reports are required until the stay is removed.

! Member of the EPCRA section 313 dioxin and dioxin-like compounds category.

X Indicates that this is a second name for an EPCRA section 313 chemical already included on this consolidated list. May also indicate that the same chemical with the same CAS number appears on another list with a different chemical name.

Codes in CERCLA RQ column

*	The Agency may adjust the statutory RQ for this RCRA hazardous substance (K181 waste) in a future rulemaking; until then the statutory one-pound RQ applies.
PMN	This EHS chemical was identified from a Premanufacture Review Notice (PMN) submitted to EPA. The submitter has claimed certain information on the submission to be confidential, including specific chemical identity.
&	Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985).
@	Releases in amounts less than 1,000 pounds per 24 hours of nitrogen oxide or nitrogen dioxide to the air that are the result of combustion and combustion related activities are exempt from the notification requirements of EPCRA section 304 and CERCLA.

LIST OF LISTS
CONSOLIDATED LIST OF CHEMICALS (BY CAS NUMBER)
SUBJECT TO EPCRA, CERCLA AND CAA SECTION 112 (r)

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Chlordane (Technical Mixture and Metabolites)	N.A.			&			
Chlorinated Benzenes	N.A.			&			
Chlorinated Ethanes	N.A.			&			
Chlorinated Naphthalene	N.A.			&			
Chloroalkyl Ethers	N.A.			&			
Coke Oven Emissions	N.A.			1			
Creosote	N.A.			1		U051	
Cyanides (soluble salts and complexes), not otherwise specified	N.A.			10	313c	P030	
DDT and Metabolites	N.A.			&			
Dichlorobenzidine	N.A.			&			
Diphenylhydrazine	N.A.			&			
Endosulfan and Metabolites	N.A.			&			
Endrin and Metabolites	N.A.			&			
Fine mineral fibers	N.A.			&			
Haloethers	N.A.			&			
Halomethanes	N.A.			&			
Heptachlor and Metabolites	N.A.			&			
Nitrophenols	N.A.			&			
Nitrosamines	N.A.			&			
Phthalate Esters	N.A.			&			
Polycyclic organic matter	N.A.			&			
Polynuclear Aromatic Hydrocarbons	N.A.			&			
Antimony Compounds	N010			&	313		
Arsenic Compounds	N020			&	313		
Barium Compounds	N040				313		
Beryllium Compounds	N050			&	313		
Cadmium Compounds	N078			&	313		
Chlorinated Phenols	N084			&	313		
Chlorophenols	N084			&	313		
Chromium Compounds	N090			&	313		
Cobalt Compounds	N096			&	313		
Copper Compounds	N100			&	313		
Cyanide Compounds	N106			&	313		
Diisocyanates (includes only 20 chemicals)	N120				313		
Dioxin and dioxin-like compounds (includes only 17 chemicals)	N150				313		
Ethylenebisdithiocarbamic acid, salts and esters	N171				313		
Glycol Ethers	N230			&	313		
Lead Compounds	N420			&	313		
Manganese Compounds	N450			&	313		
Mercury Compounds	N458			&	313		
Nickel Compounds	N495			&	313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Nicotine and salts	N503				313		
Nitrate compounds (water dissociable)	N511				313		
Polybrominated Biphenyls (PBBs)	N575				313		
Polychlorinated alkanes (C10 to C13)	N583				313		
Polycyclic aromatic compounds (includes only 23 chemicals)	N590				313		
Selenium Compounds	N725			&	313		
Silver Compounds	N740			&	313		
Strychnine and salts	N746				313		
Thallium Compounds	N760			&	313		
Vanadium Compounds	N770				313		
Warfarin and salts	N874				313		
Zinc Compounds	N982			&	313		
Organorhodium Complex (PMN-82-147)	0	10/10,000	10	PMN			
Formaldehyde	50-00-0	500	100	100	313	U122	15,000
Formaldehyde (solution)	50-00-0	500	100	100	X	U122	15,000
Mitomycin C	50-07-7	500/10,000	10	10		U010	
Ergocalciferol	50-14-6	1,000/10,000	1,000				
Cyclophosphamide	50-18-0			10		U058	
DDT	50-29-3			1		U061	
Benzo[a]pyrene	50-32-8			1	313+	U022	
Reserpine	50-55-5			5,000		U200	
Piperonyl butoxide	51-03-6				313		
Fluorouracil	51-21-8	500/10,000	500		313		
5-Fluorouracil	51-21-8	500/10,000	500		X		
2,4-Dinitrophenol	51-28-5			10	313	P048	
Epinephrine	51-43-4			1,000		P042	
2-Chloro-N-(2-chloroethyl)-N-methylethanamine	51-75-2	10	10		X		
Mechlorethamine	51-75-2	10	10		X		
Nitrogen mustard	51-75-2	10	10		313		
Carbamic acid, ethyl ester	51-79-6			100	X	U238	
Ethyl carbamate	51-79-6			100	X	U238	
Urethane	51-79-6			100	313	U238	
Carbachol chloride	51-83-2	500/10,000	500				
Phosphonic acid, (2,2,2-trichloro-1-hydroxyethyl)-,dimethyl ester	52-68-6			100	X		
Trichlorfon	52-68-6			100	313		
Famphur	52-85-7			1,000	313	P097	
Dibenz[a,h]anthracene	53-70-3			1	313+	U063	
2-Acetylaminofluorene	53-96-3			1	313	U005	
Nicotine	54-11-5	100	100	100	313c	P075	
Nicotine and salts	54-11-5			100	313c	P075	
Pyridine, 3-(1-methyl-2-pyrrolidinyl)-,(S)-	54-11-5	100	100	100		P075	
Aminopterin	54-62-6	500/10,000	500				
N-Nitrosodiethylamine	55-18-5			1	313	U174	
Benzamide	55-21-0				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
O,O-Dimethyl O-(3-methyl-4-(methylthio) phenyl) ester, phosphorothioic acid	55-38-9				X		
Fenthion	55-38-9				313		
Nitroglycerin	55-63-0			10	313	P081	
Diisopropylfluorophosphate	55-91-4	100	100	100		P043	
Isofluorphate	55-91-4	100	100	100		P043	
Methylthiouracil	56-04-2			10		U164	
Carbon tetrachloride	56-23-5			10	313	U211	
Cantharidin	56-25-7	100/10,000	100				
Bis(tributyltin) oxide	56-35-9				313		
Parathion	56-38-2	100	10	10	313	P089	
Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester	56-38-2	100	10	10	X	P089	
3-Methylcholanthrene	56-49-5			10	313+	U157	
Diethylstilbestrol	56-53-1			1		U089	
Benz[a]anthracene	56-55-3			10	313+	U018	
Coumaphos	56-72-4	100/10,000	10	10			
1,1-Dimethyl hydrazine	57-14-7	1,000	10	10	313	U098	15,000
Dimethylhydrazine	57-14-7	1,000	10	10	X	U098	15,000
Hydrazine, 1,1-dimethyl-	57-14-7	1,000	10	10	X	U098	15,000
Strychnine	57-24-9	100/10,000	10	10	313c	P108	
Strychnine, and salts	57-24-9			10	313c	P108	
Pentobarbital sodium	57-33-0				313		
Phenytoin	57-41-0				313		
Physostigmine	57-47-6	100/10,000	100	100		P204	
beta-Propiolactone	57-57-8	500	10	10	313		
Physostigmine, salicylate (1:1)	57-64-7	100/10,000	100	100		P188	
Chlordane	57-74-9	1,000	1	1	313	U036	
4,7-Methanoindan, 1,2,3,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	57-74-9	1,000	1	1	X	U036	
7,12-Dimethylbenz[a]anthracene	57-97-6			1	313+	U094	
Phenoxarsine, 10,10'-oxydi-	58-36-6	500/10,000	500				
Cyclohexane, 1,2,3,4,5,6-hexachloro-,(1.alpha.,2.alpha.,3.beta.,4.alpha.,5.alpha.,6.beta.)-	58-89-9	1,000/10,000	1	1	X	U129	
Hexachlorocyclohexane (gamma isomer)	58-89-9	1,000/10,000	1	1	X	U129	
Lindane	58-89-9	1,000/10,000	1	1	313	U129	
2,3,4,6-Tetrachlorophenol	58-90-2			10	313c		
p-Chloro-m-cresol	59-50-7			5,000		U039	
Phenylhydrazine hydrochloride	59-88-1	1,000/10,000	1,000				
N-Nitrosomorpholine	59-89-2			1	313		
Ethylenediamine-tetraacetic acid (EDTA)	60-00-4			5,000			
4-Aminoazobenzene	60-09-3				313		
4-Dimethylaminoazobenzene	60-11-7			10	313	U093	
Dimethylaminoazobenzene	60-11-7			10	X	U093	
Ethane, 1,1'-oxybis-	60-29-7			100		U117	10,000

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Ethyl ether	60-29-7			100		U117	10,000
Hydrazine, methyl-	60-34-4	500	10	10	X	P068	15,000
Methyl hydrazine	60-34-4	500	10	10	313	P068	15,000
Acetamide	60-35-5			100	313		
Strychnine, sulfate	60-41-3	100/10,000	10	10	313c		
Dimethoate	60-51-5	500/10,000	10	10	313	P044	
Dieldrin	60-57-1			1		P037	
Amitrole	61-82-5			10	313	U011	
Phenylmercuric acetate	62-38-4	500/10,000	100	100	313c	P092	
Phenylmercury acetate	62-38-4	500/10,000	100	100	313c	P092	
Phenacetin	62-44-2			100		U187	
Ethyl methanesulfonate	62-50-0			1		U119	
Aniline	62-53-3	1,000	5,000	5,000	313	U012	
Thioacetamide	62-55-5			10	313	U218	
Thiourea	62-56-6			10	313	U219	
Dichlorvos	62-73-7	1,000	10	10	313		
Phosphoric acid, 2-dichloroethenyl dimethyl ester	62-73-7	1,000	10	10	X		
Fluoroacetic acid, sodium salt	62-74-8	10/10,000	10	10	X	P058	
Sodium fluoroacetate	62-74-8	10/10,000	10	10	313	P058	
Methanamine, N-methyl-N-nitroso-	62-75-9	1,000	10	10	X	P082	
N-Nitrosodimethylamine	62-75-9	1,000	10	10	313	P082	
Nitrosodimethylamine	62-75-9	1,000	10	10	X	P082	
Carbaryl	63-25-2			100	313	U279	
1-Naphthalenol, methylcarbamate	63-25-2			100	X	U279	
Phenol, 3-(1-methylethyl)-, methylcarbamate	64-00-6	500/10,000	10	10		P202	
Formic acid	64-18-6			5,000	313	U123	
Acetic acid	64-19-7			5,000			
Diethyl sulfate	64-67-5			10	313		
Tetracycline hydrochloride	64-75-5				313		
Colchicine	64-86-8	10/10,000	10				
Nicotine sulfate	65-30-5	100/10,000	100	100	313c		
Benzoic acid	65-85-0			5,000			
Uracil mustard	66-75-1			10		U237	
Cycloheximide	66-81-9	100/10,000	100				
Methanol	67-56-1			5,000	313	U154	
Isopropyl alcohol (mfg-strong acid process)	67-63-0				313		
Acetone	67-64-1			5,000		U002	
Chloroform	67-66-3	10,000	10	10	313	U044	20,000
Methane, trichloro-	67-66-3	10,000	10	10	X	U044	20,000
Hexachloroethane	67-72-1			100	313	U131	
Dimethylformamide	68-12-2			100	X		
N,N-Dimethylformamide	68-12-2			100	313		
2,5-Cyclohexadiene-1,4-dione, 2,3,5-tris(1-aziridinyl)-	68-76-8				X		
Triaziquone	68-76-8				313		
Guanidine, N-methyl-N'-nitro-N-	70-25-7			10		U163	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
nitroso-							
Hexachlorophene	70-30-4			100	313	U132	
Propiophenone, 4'-amino	70-69-9	100/10,000	100				
n-Butyl alcohol	71-36-3			5,000	313	U031	
Benzene	71-43-2			10	313	U019	
Methyl chloroform	71-55-6			1,000	X	U226	
1,1,1-Trichloroethane	71-55-6			1,000	313	U226	
Digitoxin	71-63-6	100/10,000	100				
Endrin	72-20-8	500/10,000	1	1		P051	
Benzene, 1,1'-(2,2,2-trichloroethylidene)bis [4-methoxy-	72-43-5			1	X	U247	
Methoxychlor	72-43-5			1	313	U247	
DDD	72-54-8			1		U060	
DDE	72-55-9			1			
Trypan blue	72-57-1			10	313	U236	
Methane	74-82-8						10,000
Bromomethane	74-83-9	1,000	1,000	1,000	313	U029	
Methyl bromide	74-83-9	1,000	1,000	1,000	X	U029	
Ethane	74-84-0						10,000
Ethene	74-85-1				X		10,000
Ethylene	74-85-1				313		10,000
Acetylene	74-86-2						10,000
Ethyne	74-86-2						10,000
Chloromethane	74-87-3			100	313	U045	10,000
Methane, chloro-	74-87-3			100	X	U045	10,000
Methyl chloride	74-87-3			100	X	U045	10,000
Methyl iodide	74-88-4			100	313	U138	
Methanamine	74-89-5			100			10,000
Monomethylamine	74-89-5			100			10,000
Hydrocyanic acid	74-90-8	100	10	10	X	P063	2,500
Hydrogen cyanide	74-90-8	100	10	10	313	P063	2,500
Methanethiol	74-93-1	500	100	100	X	U153	10,000
Methyl mercaptan	74-93-1	500	100	100	313s	U153	10,000
Thiomethanol	74-93-1	500	100	100	X	U153	10,000
Methylene bromide	74-95-3			1,000	313	U068	
Propane	74-98-6						10,000
1-Propyne	74-99-7						10,000
Propyne	74-99-7						10,000
Chloroethane	75-00-3			100	313		10,000
Ethane, chloro-	75-00-3			100	X		10,000
Ethyl chloride	75-00-3			100	X		10,000
Ethene, chloro-	75-01-4			1	X	U043	10,000
Vinyl chloride	75-01-4			1	313	U043	10,000
Ethene, fluoro-	75-02-5						10,000
Vinyl fluoride	75-02-5				313		10,000
Ethanamine	75-04-7			100			10,000
Monoethylamine	75-04-7			100			10,000
Acetonitrile	75-05-8			5,000	313	U003	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Acetaldehyde	75-07-0			1,000	313	U001	10,000
Ethanethiol	75-08-1						10,000
Ethyl mercaptan	75-08-1						10,000
Dichloromethane	75-09-2			1,000	313	U080	
Methylene chloride	75-09-2			1,000	X	U080	
Carbon disulfide	75-15-0	10,000	100	100	313	P022	20,000
Cyclopropane	75-19-4						10,000
Calcium carbide	75-20-7			10			
Ethylene oxide	75-21-8	1,000	10	10	313	U115	10,000
Oxirane	75-21-8	1,000	10	10	X	U115	10,000
Bromoform	75-25-2			100	313	U225	
Tribromomethane	75-25-2			100	X	U225	
Dichlorobromomethane	75-27-4			5,000	313		
Isobutane	75-28-5						10,000
Propane, 2-methyl	75-28-5						10,000
Isopropyl chloride	75-29-6						10,000
Propane, 2-chloro-	75-29-6						10,000
Isopropylamine	75-31-0						10,000
2-Propanamine	75-31-0						10,000
1,1-Dichloroethane	75-34-3			1,000	X	U076	
Ethylidene Dichloride	75-34-3			1,000	313	U076	
1,1-Dichloroethylene	75-35-4			100	X	U078	10,000
Ethene, 1,1-dichloro-	75-35-4			100	X	U078	10,000
Vinylidene chloride	75-35-4			100	313	U078	10,000
Acetyl chloride	75-36-5			5,000		U006	
Difluoroethane	75-37-6						10,000
Ethane, 1,1-difluoro-	75-37-6						10,000
Ethene, 1,1-difluoro-	75-38-7						10,000
Vinylidene fluoride	75-38-7						10,000
Dichlorofluoromethane	75-43-4				313		
HCFC-21	75-43-4				X		
Carbonic dichloride	75-44-5	10	10	10	X	P095	500
Phosgene	75-44-5	10	10	10	313	P095	500
Chlorodifluoromethane	75-45-6				313		
HCFC-22	75-45-6				X		
Methanamine, N,N-dimethyl-	75-50-3			100			10,000
Trimethylamine	75-50-3			100			10,000
Nitromethane	75-52-5				313		
Aziridine, 2-methyl	75-55-8	10,000	1	1	X	P067	10,000
Propyleneimine	75-55-8	10,000	1	1	313	P067	10,000
Oxirane, methyl-	75-56-9	10,000	100	100	X		10,000
Propylene oxide	75-56-9	10,000	100	100	313		10,000
Cacodylic acid	75-60-5			1		U136	
Bromotrifluoromethane	75-63-8				313		
Halon 1301	75-63-8				X		
tert-Butylamine	75-64-9			1,000			
tert-Butyl alcohol	75-65-0				313		
1-Chloro-1,1-difluoroethane	75-68-3				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
HCFC-142b	75-68-3				X		
CFC-11	75-69-4			5,000	X	U121	
Trichlorofluoromethane	75-69-4			5,000	313	U121	
Trichloromonofluoromethane	75-69-4			5,000	X	U121	
CFC-12	75-71-8			5,000	X	U075	
Dichlorodifluoromethane	75-71-8			5,000	313	U075	
CFC-13	75-72-9				X		
Chlorotrifluoromethane	75-72-9				313		
Plumbane, tetramethyl-	75-74-1	100	100				10,000
Tetramethyllead	75-74-1	100	100		313c		10,000
Silane, tetramethyl-	75-76-3						10,000
Tetramethylsilane	75-76-3						10,000
Silane, chlorotrimethyl-	75-77-4	1,000	1,000				10,000
Trimethylchlorosilane	75-77-4	1,000	1,000				10,000
Dimethyldichlorosilane	75-78-5	500	500				5,000
Silane, dichlorodimethyl-	75-78-5	500	500				5,000
Methyltrichlorosilane	75-79-6	500	500				5,000
Silane, trichloromethyl-	75-79-6	500	500				5,000
Acetone cyanohydrin	75-86-5	1,000	10	10	X	P069	
2-Methyllactonitrile	75-86-5	1,000	10	10	313	P069	
Acetaldehyde, trichloro-	75-87-6			5,000		U034	
2-Chloro-1,1,1-trifluoroethane	75-88-7				313		
HCFC-133a	75-88-7				X		
2,2-Dichloropropionic acid	75-99-0			5,000			
Pentachloroethane	76-01-7			10	313	U184	
Trichloroacetyl chloride	76-02-8	500	500		313		
Chloropicrin	76-06-2				313		
Ethane, 1,1,2-trichloro-1,2,2,-trifluoro-	76-13-1				X		
Freon 113	76-13-1				313		
CFC-114	76-14-2				X		
Dichlorotetrafluoroethane	76-14-2				313		
CFC-115	76-15-3				X		
Monochloropentafluoroethane	76-15-3				313		
Heptachlor	76-44-8			1	313	P059	
1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene	76-44-8			1	X	P059	
Triphenyltin hydroxide	76-87-9				313		
Phenolphthalein	77-09-8				313		
Hexachlorocyclopentadiene	77-47-4	100	10	10	313	U130	
Dicyclopentadiene	77-73-6				313		
Dimethyl sulfate	77-78-1	500	100	100	313	U103	
Tabun	77-81-6	10	10				
Tetraethyl lead	78-00-2	100	10	10	313c	P110	
Dioxathion	78-34-2	500	500				
DEF	78-48-8				X		
S,S,S-Tributyltrithiophosphate	78-48-8				313		
Amiton	78-53-5	500	500				
Isophorone	78-59-1			5,000			

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Oxetane, 3,3-bis(chloromethyl)-	78-71-7	500	500				
Butane, 2-methyl-	78-78-4						10,000
Isopentane	78-78-4						10,000
1,3-Butadiene, 2-methyl-	78-79-5			100			10,000
Isoprene	78-79-5			100	**313**		10,000
iso-Butylamine	78-81-9			1,000			
Isobutyronitrile	78-82-0	1,000	1,000				20,000
Propanenitrile, 2-methyl-	78-82-0	1,000	1,000				20,000
Isobutyl alcohol	78-83-1			5,000		U140	
Isobutyraldehyde	78-84-2				313		
1,2-Dichloropropane	78-87-5			1,000	313	U083	
Propane 1,2-dichloro-	78-87-5			1,000	X	U083	
2,3-Dichloropropene	78-88-6			100	313		
sec-Butyl alcohol	78-92-2				313		
Methyl ethyl ketone	78-93-3			5,000		U159	
Methyl vinyl ketone	78-94-4	10	10				
Lactonitrile	78-97-7	1,000	1,000				
1,1-Dichloropropane	78-99-9			1,000			
1,1,2-Trichloroethane	79-00-5			100	313	U227	
Trichloroethylene	79-01-6			100	313	U228	
Acrylamide	79-06-1	1,000/10,000	5,000	5,000	313	U007	
Propionic acid	79-09-4			5,000			
Acrylic acid	79-10-7			5,000	313	U008	
Chloroacetic acid	79-11-8	100/10,000	100	100	313		
Thiosemicarbazide	79-19-6	100/10,000	100	100	313	P116	
Ethaneperoxoic acid	79-21-0	500	500		X		10,000
Peracetic acid	79-21-0	500	500		313		10,000
Carbonochloridic acid, methylester	79-22-1	500	1,000	1,000	X	U156	5,000
Methyl chlorocarbonate	79-22-1	500	1,000	1,000	313	U156	5,000
Methyl chloroformate	79-22-1	500	1,000	1,000	X	U156	5,000
iso-Butyric acid	79-31-2			5,000			
1,1,2,2-Tetrachloroethane	79-34-5			100	313	U209	
Ethene, chlorotrifluoro-	79-38-9						10,000
Trifluorochloroethylene	79-38-9						10,000
Dimethylcarbamyl chloride	79-44-7			1	313	U097	
2-Nitropropane	79-46-9			10	313	U171	
Tetrabromobisphenol A	79-94-7				313		
4,4'-Isopropylidenediphenol	80-05-7				313		
Cumene hydroperoxide	80-15-9			10	313	U096	
Hydroperoxide, 1-methyl-1-phenylethyl-	80-15-9			10	X	U096	
Methyl methacrylate	80-62-6			1,000	313	U162	
Methyl 2-chloroacrylate	80-63-7	500	500				
Saccharin (manufacturing)	81-07-2			100	313	U202	
Saccharin and salts	81-07-2			100		U202	
1-Amino-2,4-dibromoanthraquinone	81-49-2				313		
Warfarin	81-81-2	500/10,000	100	100	X 313c	P001	
Warfarin, & salts, conc.>0.3%	81-81-2			100	X 313c	P001	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
C.I. Food Red 15	81-88-9				313		
1-Amino-2-methylanthraquinone	82-28-0				313		
Diphacinone	82-66-6	10/10,000	10				
PCNB	82-68-8			100	X	U185	
Pentachloronitrobenzene	82-68-8			100	X	U185	
Quintozene	82-68-8			100	313	U185	
Acenaphthene	83-32-9			100			
Diethyl phthalate	84-66-2			1,000		U088	
n-Butyl phthalate	84-74-2			10	X	U069	
Dibutyl phthalate	84-74-2			10	313	U069	
Diquat	85-00-7			1,000			
Phenanthrene	85-01-8			5,000	313		
Phthalic anhydride	85-44-9			5,000	313	U190	
Butyl benzyl phthalate	85-68-7			100			
N-Nitrosodiphenylamine	86-30-6			100	313		
Azinphos-methyl	86-50-0	10/10,000	1	1			
Guthion	86-50-0	10/10,000	1	1			
Fluorene	86-73-7			5,000			
ANTU	86-88-4	500/10,000	100	100		P072	
Thiourea, 1-naphthalenyl-	86-88-4	500/10,000	100	100		P072	
2,6-Xylidine	87-62-7				313		
2,6-Dichlorophenol	87-65-0			100		U082	
Hexachloro-1,3-butadiene	87-68-3			1	313	U128	
Hexachlorobutadiene	87-68-3			1	X	U128	
PCP	87-86-5			10	X		
Pentachlorophenol	87-86-5			10	313		
Aniline, 2,4,6-trimethyl-	88-05-1	500	500				
2,4,6-Trichlorophenol	88-06-2			10	313		
o-Nitrotoluene	88-72-2			1,000			
2-Nitrophenol	88-75-5			100	313		
Dinitrobutyl phenol	88-85-7	100/10,000	1,000	1,000	313	P020	
Dinoseb	88-85-7	100/10,000	1,000	1,000	X	P020	
Picric acid	88-89-1				313		
o-Anisidine	90-04-0			100	313		
2-Phenylphenol	90-43-7				313		
Michler's ketone	90-94-8				313		
Benzene, 1,3-diisocyanato-2-methyl-	91-08-7	100	100	100	X		10,000
Toluene-2,6-diisocyanate	91-08-7	100	100	100	313		10,000
Naphthalene	91-20-3			100	313	U165	
Quinoline	91-22-5			5,000	313		
o-Nitroanisole	91-23-6				313		
2-Chloronaphthalene	91-58-7			5,000		U047	
beta-Naphthylamine	91-59-8			10	313	U168	
N,N-Diethylaniline	91-66-7			1,000			
Methapyrilene	91-80-5			5,000		U155	
3,3'-Dimethoxybenzidine-4,4'-diisocyanate	91-93-0				313#		
3,3'-Dichlorobenzidine	91-94-1			1	313	U073	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
3,3'-Dimethyl-4,4'-diphenylene diisocyanate	91-97-4				313#		
Biphenyl	92-52-4			100	313		
4-Aminobiphenyl	92-67-1			1	313		
Benzidine	92-87-5			1	313	U021	
4-Nitrobiphenyl	92-93-3			10	313		
Methyleugenol	93-15-2				313		
Mecoprop	93-65-2				313		
Silvex (2,4,5-TP)	93-72-1			100			
2,4,5-T acid	93-76-5			1,000			
2,4,5-T esters	93-79-8			1,000			
2,4-D Esters	94-11-1			100	X		
2,4-D isopropyl ester	94-11-1			100	313		
Benzoyl peroxide	94-36-0				313		
Dihydrosafrole	94-58-6			10	313	U090	
Safrole	94-59-7			100	313	U203	
(4-Chloro-2-methylphenoxy) acetic acid	94-74-6				X		
MCPA	94-74-6				X		
Methoxone	94-74-6				313		
Acetic acid, (2,4-dichlorophenoxy)-	94-75-7			100	X	U240	
2,4-D	94-75-7			100	313	U240	
2,4-D Acid	94-75-7			100	X	U240	
2,4-D, salts and esters	94-75-7			100		U240	
2,4-D Esters	94-79-1			100			
2,4-D butyl ester	94-80-4			100	313		
2,4-D Esters	94-80-4			100	X		
2,4-DB	94-82-6				313		
Benzene, o-dimethyl-	95-47-6			1,000	X	U239	
o-Xylene	95-47-6			1,000	313	U239	
o-Cresol	95-48-7	1,000/10,000	100	100	313	U052	
o-Dichlorobenzene	95-50-1			100	X	U070	
1,2-Dichlorobenzene	95-50-1			100	313	U070	
o-Toluidine	95-53-4			100	313	U328	
1,2-Phenylenediamine	95-54-5				313		
2-Chlorophenol	95-57-8			100		U048	
1,2,4-Trimethylbenzene	95-63-6				313		
p-Chloro-o-toluidine	95-69-2				313		
2,4-Diaminotoluene	95-80-7			10	313		
1,2,4,5-Tetrachlorobenzene	95-94-3			5,000		U207	
2,4,5-Trichlorophenol	95-95-4			10	313		
Styrene oxide	96-09-3			100	313		
DBCP	96-12-8			1	X	U066	
1,2-Dibromo-3-chloropropane	96-12-8			1	313	U066	
1,2,3-Trichloropropane	96-18-4				313		
Methyl acrylate	96-33-3				313		
Ethylene thiourea	96-45-7			10	313	U116	
Dichlorophene	97-23-4				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2,2'-Methylenebis(4-chlorophenol	97-23-4				X		
C.I. Solvent Yellow 3	97-56-3				313		
Ethyl methacrylate	97-63-2			1,000		U118	
Furfural	98-01-1			5,000		U125	
Benzenearsonic acid	98-05-5	10/10,000	10				
Benzoic trichloride	98-07-7	100	10	10	313	U023	
Benzotrichloride	98-07-7	100	10	10	X	U023	
Benzenesulfonyl chloride	98-09-9			100		U020	
Trichlorophenylsilane	98-13-5	500	500				
Benzenamine, 3-(trifluoromethyl)-	98-16-8	500	500				
Cumene	98-82-8			5,000	313	U055	
Acetophenone	98-86-2			5,000	313	U004	
Benzal chloride	98-87-3	500	5,000	5,000	313	U017	
Benzoyl chloride	98-88-4			1,000	313		
Nitrobenzene	98-95-3	10,000	1,000	1,000	313	U169	
m-Nitrotoluene	99-08-1			1,000			
Dichloran	99-30-9				313		
2,6-Dichloro-4-nitroaniline	99-30-9				X		
1,3,5-Trinitrobenzene	99-35-4			10		U234	
5-Nitro-o-toluidine	99-55-8			100	313	U181	
5-Nitro-o-anisidine	99-59-2				313		
m-Dinitrobenzene	99-65-0			100	313		
Dimethyl-p-phenylenediamine	99-98-9	10/10,000	10				
p-Nitrotoluene	99-99-0			1,000			
p-Nitroaniline	100-01-6			5,000	313	P077	
4-Nitrophenol	100-02-7			100	313	U170	
p-Nitrophenol	100-02-7			100	X	U170	
Benzene, 1-(chloromethyl)-4-nitro-	100-14-1	500/10,000	500				
p-Dinitrobenzene	100-25-4			100	313		
Ethylbenzene	100-41-4			1,000	313		
Styrene	100-42-5			1,000	313		
Benzyl chloride	100-44-7	500	100	100	313	P028	
Benzonitrile	100-47-0			5,000			
N-Nitrosopiperidine	100-75-4			10	313	U179	
Anilazine	101-05-3				313		
4,6-Dichloro-N-(2-chlorophenyl)-1,3,5-triazin-2-amine	101-05-3				X		
MBOCA	101-14-4			10	X	U158	
4,4'-Methylenebis(2-chloroaniline)	101-14-4			10	313	U158	
Barban	101-27-9			10		U280	
4-Bromophenyl phenyl ether	101-55-3			100		U030	
4,4'-Methylenebis(N,N-dimethyl)benzenamine	101-61-1				313		
MDI	101-68-8			5,000	X		
Methylenebis(phenylisocyanate)	101-68-8			5,000	313#		
4,4'-Methylenedianiline	101-77-9			10	313		
4,4'-Diaminodiphenyl ether	101-80-4				313		
Diglycidyl resorcinol ether	101-90-6				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Isocyanic acid, 3,4-dichlorophenyl ester	102-36-3	500/10,000	500				
Phenylthiourea	103-85-5	100/10,000	100	100		P093	
p-Chlorophenyl isocyanate	104-12-1				313		
1,4-Phenylene diisocyanate	104-49-4				313#		
p-Anisidine	104-94-9				313		
sec-Butyl acetate	105-46-4			5,000			
2,4-Dimethylphenol	105-67-9			100	313	U101	
Benzene, p-dimethyl-	106-42-3			100	X	U239	
p-Xylene	106-42-3			100	313	U239	
p-Cresol	106-44-5			100	313	U052	
1,4-Dichlorobenzene	106-46-7			100	313	U072	
p-Chloroaniline	106-47-8			1,000	313	P024	
p-Toluidine	106-49-0			100		U353	
p-Phenylenediamine	106-50-3			5,000	313		
p-Benzoquinone	106-51-4			10	X	U197	
Quinone	106-51-4			10	313	U197	
1,2-Butylene oxide	106-88-7			100	313		
Epichlorohydrin	106-89-8	1,000	100	100	313	U041	20,000
Oxirane, (chloromethyl)-	106-89-8	1,000	100	100	X	U041	20,000
1,2-Dibromoethane	106-93-4			1	313	U067	
Ethylene dibromide	106-93-4			1	X	U067	
Propargyl bromide	106-96-7	10	10				
Butane	106-97-8						10,000
1-Butene	106-98-9						10,000
1,3-Butadiene	106-99-0			10	313		10,000
1-Butyne	107-00-6						10,000
Ethyl acetylene	107-00-6						10,000
2-Butene	107-01-7						10,000
Acrolein	107-02-8	500	1	1	313	P003	5,000
2-Propenal	107-02-8	500	1	1	X	P003	5,000
Allyl chloride	107-05-1			1,000	313		
1,2-Dichloroethane	107-06-2			100	313	U077	
Ethylene dichloride	107-06-2			100	X	U077	
Chloroethanol	107-07-3	500	500				
n-Propylamine	107-10-8			5,000		U194	
Allylamine	107-11-9	500	500		313		10,000
2-Propen-1-amine	107-11-9	500	500		X		10,000
Ethyl cyanide	107-12-0	500	10	10		P101	10,000
Propanenitrile	107-12-0	500	10	10		P101	10,000
Propionitrile	107-12-0	500	10	10		P101	10,000
Acrylonitrile	107-13-1	10,000	100	100	313	U009	20,000
2-Propenenitrile	107-13-1	10,000	100	100	X	U009	20,000
1,2-Ethanediamine	107-15-3	10,000	5,000	5,000			20,000
Ethylenediamine	107-15-3	10,000	5,000	5,000			20,000
Formaldehyde cyanohydrin	107-16-4	1,000	1,000				
Allyl alcohol	107-18-6	1,000	100	100	313	P005	15,000
2-Propen-1-ol	107-18-6	1,000	100	100	X	P005	15,000

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Propargyl alcohol	107-19-7			1,000	313	P102	
Chloroacetaldehyde	107-20-0			1,000		P023	
Ethylene glycol	107-21-1			5,000	313		
Ethene, methoxy-	107-25-5						10,000
Vinyl methyl ether	107-25-5						10,000
Chloromethyl methyl ether	107-30-2	100	10	10	313	U046	5,000
Methane, chloromethoxy-	107-30-2	100	10	10	X	U046	5,000
Formic acid, methyl ester	107-31-3						10,000
Methyl formate	107-31-3						10,000
Sarin	107-44-8	10	10				
TEPP	107-49-3	100	10	10		P111	
Tetraethyl pyrophosphate	107-49-3	100	10	10		P111	
Butyric acid	107-92-6			5,000			
Acetic acid ethenyl ester	108-05-4	1,000	5,000	5,000	X		15,000
Vinyl acetate	108-05-4	1,000	5,000	5,000	313		15,000
Vinyl acetate monomer	108-05-4	1,000	5,000	5,000	X		15,000
Methyl isobutyl ketone	108-10-1			5,000	313	U161	
Carbonochloridic acid, 1-methylethyl ester	108-23-6	1,000	1,000				15,000
Isopropyl chloroformate	108-23-6	1,000	1,000				15,000
Acetic anhydride	108-24-7			5,000			
Maleic anhydride	108-31-6			5,000	313	U147	
Benzene, m-dimethyl-	108-38-3			1,000	X	U239	
m-Xylene	108-38-3			1,000	313	U239	
m-Cresol	108-39-4			100	313	U052	
1,3-Phenylenediamine	108-45-2				313		
Resorcinol	108-46-3			5,000		U201	
Bis(2-chloro-1-methylethyl)ether	108-60-1			1,000	313	U027	
Dichloroisopropyl ether	108-60-1			1,000	X	U027	
Toluene	108-88-3			1,000	313	U220	
Chlorobenzene	108-90-7			100	313	U037	
Cyclohexanamine	108-91-8	10,000	10,000				15,000
Cyclohexylamine	108-91-8	10,000	10,000				15,000
Cyclohexanol	108-93-0				313		
Cyclohexanone	108-94-1			5,000		U057	
Phenol	108-95-2	500/10,000	1,000	1,000	313	U188	
Benzenethiol	108-98-5	500	100	100		P014	
Thiophenol	108-98-5	500	100	100		P014	
2-Methylpyridine	109-06-8			5,000	313	U191	
2-Picoline	109-06-8			5,000	X	U191	
Carbonochloridic acid, propylester	109-61-5	500	500				15,000
Propyl chloroformate	109-61-5	500	500				15,000
Pentane	109-66-0						10,000
1-Pentene	109-67-1						10,000
Butylamine	109-73-9			1,000			
Malononitrile	109-77-3	500/10,000	1,000	1,000	313	U149	
2-Methoxyethanol	109-86-4				313		
Diethylamine	109-89-7			100			

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Ethene, ethoxy-	109-92-2						10,000
Vinyl ethyl ether	109-92-2						10,000
Ethyl nitrite	109-95-5						10,000
Nitrous acid, ethyl ester	109-95-5						10,000
Furan, tetrahydro-	109-99-9			1,000		U213	
Furan	110-00-9	500	100	100	313	U124	5,000
Maleic acid	110-16-7			5,000			
Fumaric acid	110-17-8			5,000			
iso-Butyl acetate	110-19-0			5,000			
Hexane	110-54-3			5,000	X		
n-Hexane	110-54-3			5,000	313		
trans-1,4-Dichloro-2-butene	110-57-6	500	500		313		
trans-1,4-Dichlorobutene	110-57-6	500	500		X		
2-Chloroethyl vinyl ether	110-75-8			1,000		U042	
Ethanol, 2-ethoxy-	110-80-5			1,000	X	U359	
2-Ethoxyethanol	110-80-5			1,000	313	U359	
Cyclohexane	110-82-7			1,000	313	U056	
Pyridine	110-86-1			1,000	313	U196	
Piperidine	110-89-4	1,000	1,000				15,000
Diethanolamine	111-42-2			100	313		
Bis(2-chloroethyl) ether	111-44-4	10,000	10	10	313	U025	
Dichloroethyl ether	111-44-4	10,000	10	10	X	U025	
Ethylenebisdithiocarbamic acid, salts & esters	111-54-6			5,000	X	U114	
Adiponitrile	111-69-3	1,000	1,000				
Bis(2-chloroethoxy) methane	111-91-1			1,000	313	U024	
Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1			100	X	U411	
Propoxur	114-26-1			100	313	U411	
Azaserine	115-02-6			1		U015	
Propene	115-07-1				X		10,000
1-Propene	115-07-1				X		10,000
Propylene	115-07-1				313		10,000
Methane, oxybis-	115-10-6						10,000
Methyl ether	115-10-6						10,000
2-Methylpropene	115-11-7						10,000
1-Propene, 2-methyl-	115-11-7						10,000
Trichloroethylsilane	115-21-9	500	500				
Dimefox	115-26-4	500	500				
Chlorendic acid	115-28-6				313		
Endosulfan	115-29-7	10/10,000	1	1		P050	
Benzenemethanol, 4-chloro-.alpha.-4-chlorophenyl)-.alpha.-(trichloromethyl)-	115-32-2			10	X		
Dicofol	115-32-2			10	313		
Fensulfothion	115-90-2	500	500				
Aldicarb	116-06-3	100/10,000	1	1	313	P070	
Ethene, tetrafluoro-	116-14-3						10,000
Tetrafluoroethylene	116-14-3				313		10,000

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2-Aminoanthraquinone	117-79-3				313		
Dichlone	117-80-6			1			
Bis(2-ethylhexyl)phthalate	117-81-7			100	X	U028	
DEHP	117-81-7			100	X	U028	
Di(2-ethylhexyl) phthalate	117-81-7			100	313	U028	
Di-n-octyl phthalate	117-84-0			5,000		U107	
n-Dioctylphthalate	117-84-0			5,000		U107	
Hexachlorobenzene	118-74-1			10	313	U127	
Isopropylmethylpyrazolyl dimethylcarbamate	119-38-0	500	100	100		P192	
3,3'-Dimethoxybenzidine	119-90-4			100	313	U091	
3,3'-Dimethylbenzidine	119-93-7			10	313	U095	
o-Tolidine	119-93-7			10	X	U095	
Anthracene	120-12-7			5,000	313		
2,4-DP	120-36-5				313		
Isosafrole	120-58-1			100	313	U141	
p-Cresidine	120-71-8				313		
Catechol	120-80-9			100	313		
1,2,4-Trichlorobenzene	120-82-1			100	313		
2,4-Dichlorophenol	120-83-2			100	313	U081	
2,4-Dinitrotoluene	121-14-2			10	313	U105	
Pyrethrins	121-21-1			1			
Pyrethrins	121-29-9			1			
Triethylamine	121-44-8			5,000	313	U404	
N,N-Dimethylaniline	121-69-7			100	313		
Malathion	121-75-5			100	313		
Benzeneethanamine, alpha,alpha-dimethyl-	122-09-8			5,000		P046	
Simazine	122-34-9				313		
Diphenylamine	122-39-4				313		
Propham	122-42-9			1,000		U373	
1,2-Diphenylhydrazine	122-66-7			10	313	U109	
Hydrazine, 1,2-diphenyl-	122-66-7			10	X	U109	
Hydrazobenzene	122-66-7			10	X	U109	
Hydroquinone	123-31-9	500/10,000	100	100	313		
Maleic hydrazide	123-33-1			5,000		U148	
Propionaldehyde	123-38-6			1,000	313		
1,3-Phenylene diisocyanate	123-61-5				313#		
Propionic anhydride	123-62-6			5,000			
Paraldehyde	123-63-7			1,000	313	U182	
Butyraldehyde	123-72-8				313		
2-Butenal, (e)-	123-73-9	1,000	100	100		U053	20,000
Crotonaldehyde, (E)-	123-73-9	1,000	100	100		U053	20,000
Butyl acetate	123-86-4			5,000			
1,4-Dioxane	123-91-1			100	313	U108	
iso-Amyl acetate	123-92-2			5,000			
Adipic acid	124-04-9			5,000			
Dimethylamine	124-40-3			1,000	313	U092	10,000

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Methanamine, N-methyl-	124-40-3			1,000	X	U092	10,000
Sodium methylate	124-41-4			1,000			
Chlorodibromomethane	124-48-1			100			
Sodium cacodylate	124-65-2	100/10,000	100				
Dibromotetrafluoroethane	124-73-2				313		
Halon 2402	124-73-2				X		
Picrotoxin	124-87-8	500/10,000	500				
Tris(2,3-dibromopropyl) phosphate	126-72-7			10	313	U235	
Methacrylonitrile	126-98-7	500	1,000	1,000	313	U152	10,000
2-Propenenitrile, 2-methyl-	126-98-7	500	1,000	1,000	X	U152	10,000
Chloroprene	126-99-8			100	313		
Perchloroethylene	127-18-4			100	X	U210	
Tetrachloroethylene	127-18-4			100	313	U210	
Zinc phenolsulfonate	127-82-2			5,000	313c		
Potassium dimethyldithiocarbamate	128-03-0				313		
Sodium dimethyldithiocarbamate	128-04-1				313		
C.I. Vat Yellow 4	128-66-5				313		
Pyrene	129-00-0	1,000/10,000	5,000	5,000			
Warfarin sodium	129-06-6	100/10,000	100	100	313c		
1,4-Naphthoquinone	130-15-4			5,000		U166	
Dimethyl phthalate	131-11-3			5,000	313	U102	
Sodium pentachlorophenate	131-52-2				313		
Ammonium picrate	131-74-8			10		P009	
2-Cyclohexyl-4,6-dinitrophenol	131-89-5			100		P034	
Sodium o-phenylphenoxide	132-27-4				313		
Dibenzofuran	132-64-9			100	313		
Captan	133-06-2			10	313		
1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-	133-06-2			10	X		
Folpet	133-07-3				313		
Benzoic acid, 3-amino-2,5-dichloro-	133-90-4			100	X		
Chloramben	133-90-4			100	313		
o-Anisidine hydrochloride	134-29-2				313		
alpha-Naphthylamine	134-32-7			100	313	U167	
Benzeneamine, N-hydroxy-N-nitroso, ammonium salt	135-20-6				X		
Cupferron	135-20-6				313		
Dipropyl isocinchomeronate	136-45-8				313		
Thiram	137-26-8			10	313	U244	
Ziram	137-30-4			10		P205	
Potassium N-methyldithiocarbamate	137-41-7				313		
Metham sodium	137-42-8				313		
Sodium methyldithiocarbamate	137-42-8				X		
Disodium cyanodithioimidocarbonate	138-93-2				313		
Nitrilotriacetic acid	139-13-9				313		
3,3'-Dimethyldiphenylmethane-4,4'-diisocyanate	139-25-3				313#		
4,4'-Thiodianiline	139-65-1				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Benzyl cyanide	140-29-4	500	500				
Pyridine, 2-methyl-5-vinyl-	140-76-1	500	500				
Ethyl acrylate	140-88-5			1,000	313	U113	
Butyl acrylate	141-32-2				313		
Dicrotophos	141-66-2	100	100				
Ethyl acetate	141-78-6			5,000		U112	
1,3-Dichloropropane	142-28-9			1,000			
Nabam	142-59-6				313		
Cupric acetate	142-71-2			100	313c		
Dipropylamine	142-84-7			5,000		U110	
Sodium cyanide (Na(CN))	143-33-9	100	10	10	313c	P106	
Kepone	143-50-0			1		U142	
Fluoroacetic acid	144-49-0	10/10,000	10				
Endothall	145-73-3			1,000		P088	
Thiabendazole	148-79-8				313		
2-(4-Thiazolyl)-1H-benzimidazole	148-79-8				X		
Melphalan	148-82-3			1		U150	
MBT	149-30-4				X		
2-Mercaptobenzothiazole	149-30-4				313		
Dichloromethylphenylsilane	149-74-6	1,000	1,000				
Merphos	150-50-5				313		
Monuron	150-68-5				313		
Methoxyethylmercuric acetate	151-38-2	500/10,000	500		313c		
Potassium cyanide	151-50-8	100	10	10	313c	P098	
Aziridine	151-56-4	500	1	1	X	P054	10,000
Ethyleneimine	151-56-4	500	1	1	313	P054	10,000
Diphosphoramide, octamethyl-	152-16-9	100	100	100		P085	
p-Nitrosodiphenylamine	156-10-5				313		
1,2-Dichloroethylene	156-60-5			1,000		U079	
Calcium cyanamide	156-62-7			1,000	313		
Benzo(rst)pentaphene	189-55-9			10	313+	U064	
Dibenz[a,i]pyrene	189-55-9			10	X	U064	
Dibenzo(a,h)pyrene	189-64-0				313+		
Benzo[g,h,i]perylene	191-24-2			5,000	313		
Dibenzo(a,l)pyrene	191-30-0				313+		
Dibenzo(a,e)pyrene	192-65-4				313+		
Indeno(1,2,3-cd)pyrene	193-39-5			100	313+	U137	
7H-Dibenzo(c,g)carbazole	194-59-2				313+		
Benzo(j)fluoranthene	205-82-3				313+		
Benzo[b]fluoranthene	205-99-2			1	313+		
Fluoranthene	206-44-0			100	X	U120	
Benzo(k)fluoranthene	207-08-9			5,000	313+		
Acenaphthylene	208-96-8			5,000			
Benzo(a)phenanthrene	218-01-9			100	313+	U050	
Chrysene	218-01-9			100	X	U050	
Dibenz(a,j)acridine	224-42-0				313+		
Benz[c]acridine	225-51-4			100		U016	
Dibenz(a,h)acridine	226-36-8				313+		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Isobenzan	297-78-9	100/10,000	100				
O,O-Diethyl O-pyrazinyl phosphorothioate	297-97-2	500	100	100		P040	
Thionazin	297-97-2	500	100	100		P040	
Methyl parathion	298-00-0	100/10,000	100	100	313	P071	
Parathion-methyl	298-00-0	100/10,000	100	100	X	P071	
Phorate	298-02-2	10	10	10		P094	
Disulfoton	298-04-4	500	1	1		P039	
Amphetamine	300-62-9	1,000	1,000				
Naled	300-76-5			10	313		
Lead acetate	301-04-2			10	313c	U144	
S-(2-(Ethylsulfinyl)ethyl) O,O-dimethyl ester phosphorothioic acid	301-12-2				X		
Oxydemeton methyl	301-12-2				313		
Hydrazine	302-01-2	1,000	1	1	313	U133	15,000
Lasiocarpine	303-34-4			10		U143	
Chlorambucil	305-03-3			10		U035	
2,2-Dichloro-1,1,1-trifluoroethane	306-83-2				313		
HCFC-123	306-83-2				X		
Aldrin	309-00-2	500/10,000	1	1	313	P004	
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-(1.alpha.,4.alpha.,4a.beta.,5.alpha.,8.alpha.,8a.beta.)-	309-00-2	500/10,000	1	1	X	P004	
Diethyl-p-nitrophenyl phosphate	311-45-5			100		P041	
Bromacil	314-40-9				313		
5-Bromo-6-methyl-3-(1-methylpropyl)-2,4-(1H,3H)-pyrimidinedione	314-40-9				X		
Mexacarbate	315-18-4	500/10,000	1,000	1,000		P128	
Emetine, dihydrochloride	316-42-7	1/10,000	1				
alpha-BHC	319-84-6			10	X		
alpha-Hexachlorocyclohexane	319-84-6			10	313		
beta-BHC	319-85-7			1			
delta-BHC	319-86-8			1			
Trichloronate	327-98-0	500	500				
2,5-Dinitrophenol	329-71-5			10			
Diuron	330-54-1			100	313		
Linuron	330-55-2				313		
Diazinon	333-41-5			1	313		
Diazomethane	334-88-3			100	313		
Boron trifluoride compound with methyl ether (1:1)	353-42-4	1,000	1,000				15,000
Boron, trifluoro[oxybis[methane]]-, (T-4)-	353-42-4	1,000	1,000				15,000
Carbonic difluoride	353-50-4			1,000		U033	
Bromochlorodifluoromethane	353-59-3				313		
Halon 1211	353-59-3				X		
HCFC-121a	354-11-0				X		
1,1,1,2-Tetrachloro-2-fluoroethane	354-11-0				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
HCFC-121	354-14-3				X		
1,1,2,2-Tetrachloro-1-fluoroethane	354-14-3				313		
1,2-Dichloro-1,1,2-trifluoroethane	354-23-4				313		
HCFC-123a	354-23-4				X		
1-Chloro-1,1,2,2-tetrafluoroethane	354-25-6				313		
HCFC-124a	354-25-6				X		
Brucine	357-57-3			100	313	P018	
Fluoroacetyl chloride	359-06-8	10	10				
Ethylene fluorohydrin	371-62-0	10	10				
Ergotamine tartrate	379-79-3	500/10,000	500				
1,2-Dichloro-1,1,2,3,3-pentafluoropropane	422-44-6				313		
HCFC-225bb	422-44-6				X		
2,3-Dichloro-1,1,1,2,3-pentafluoropropane	422-48-0				313		
HCFC-225ba	422-48-0				X		
3,3-Dichloro-1,1,1,2,2-pentafluoropropane	422-56-0				313		
HCFC-225ca	422-56-0				X		
1,2-Dichloro-1,1,3,3,3-pentafluoropropane	431-86-7				313		
HCFC-225da	431-86-7				X		
Cyanogen	460-19-5			100		P031	10,000
Ethanedinitrile	460-19-5			100		P031	10,000
3-Chloro-1,1,1-trifluoropropane	460-35-5				313		
HCFC-253fb	460-35-5				X		
1,2-Propadiene	463-49-0						10,000
Propadiene	463-49-0						10,000
Carbon oxide sulfide (COS)	463-58-1			100	X		10,000
Carbonyl sulfide	463-58-1			100	313		10,000
2,2-Dimethylpropane	463-82-1						10,000
Propane, 2,2-dimethyl-	463-82-1						10,000
Isodrin	465-73-6	100/10,000	1	1	313	P060	
Chlorfenvinfos	470-90-6	500	500				
Auramine	492-80-8			100	X	U014	
C.I. Solvent Yellow 34	492-80-8			100	313	U014	
Chlornaphazine	494-03-1			100		U026	
Diaminotoluene	496-72-0			10		U221	
Methylmercuric dicyanamide	502-39-6	500/10,000	500		313c		
4-Aminopyridine	504-24-5	500/10,000	1,000	1,000		P008	
Pyridine, 4-amino-	504-24-5	500/10,000	1,000	1,000		P008	
1,3-Pentadiene	504-60-9			100		U186	10,000
Ethane, 1,1'-thiobis[2-chloro-	505-60-2	500	500		X		
Mustard gas	505-60-2	500	500		313		
Potassium silver cyanide	506-61-6	500	1	1	313c	P099	
Silver cyanide	506-64-9			1	313c	P104	
Cyanogen bromide	506-68-3	500/10,000	1,000	1,000	313c	U246	
Cyanogen chloride	506-77-4			10	313c	P033	10,000
Cyanogen iodide	506-78-5	1,000/10,000	1,000		313c		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Ammonium carbonate	506-87-6			5,000			
Acetyl bromide	506-96-7			5,000			
1,3-Dichloro-1,1,2,2,3-pentafluoropropane	507-55-1				313		
HCFC-225cb	507-55-1				X		
Methane, tetranitro-	509-14-8	500	10	10		P112	10,000
Tetranitromethane	509-14-8	500	10	10	**313**	P112	10,000
Benzeneacetic acid, 4-chloro-.alpha.-(4-chlorophenyl)-.alpha.-hydroxy-, ethyl ester	510-15-6			10	X	U038	
Chlorobenzilate	510-15-6			10	313	U038	
sec-Butylamine	513-49-5			1,000			
Dithiazanine iodide	514-73-8	500/10,000	500				
o-Dinitrobenzene	528-29-0			100	313		
2-Chloroacetophenone	532-27-4			100	313		
Dazomet	533-74-4				313		
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione	533-74-4				X		
Bis(chloromethyl) ketone	534-07-6	10/10,000	10				
4,6-Dinitro-o-cresol	534-52-1	10/10,000	10	10	313	P047	
Dinitrocresol	534-52-1	10/10,000	10	10	X	P047	
4,6-Dinitro-o-cresol and salts	534-52-1			10		P047	
Crimidine	535-89-7	100/10,000	100				
Ethylbis(2-chloroethyl)amine	538-07-8	500	500				
1,2-Dichloroethylene	540-59-0				313		
Hydrazine, 1,2-dimethyl-	540-73-8			1		U099	
2,2,4-Trimethylpentane	540-84-1			1,000			
tert-Butyl acetate	540-88-5			5,000			
Uranyl acetate	541-09-3			100			
Lewisite	541-25-3	10	10				
Ethyl chloroformate	541-41-3				313		
Dithiobiuret	541-53-7	100/10,000	100	100	X	P049	
2,4-Dithiobiuret	541-53-7	100/10,000	100	100	313	P049	
1,3-Dichlorobenzene	541-73-1			100	313	U071	
Barium cyanide	542-62-1			10	313c	P013	
1,3-Dichloropropene	542-75-6			100	X	U084	
1,3-Dichloropropylene	542-75-6			100	313	U084	
3-Chloropropionitrile	542-76-7	1,000	1,000	1,000	313	P027	
Propionitrile, 3-chloro-	542-76-7	1,000	1,000	1,000	X	P027	
Bis(chloromethyl) ether	542-88-1	100	10	10	313	P016	1,000
Chloromethyl ether	542-88-1	100	10	10	X	P016	1,000
Dichloromethyl ether	542-88-1	100	10	10	X	P016	1,000
Methane, oxybis[chloro-	542-88-1	100	10	10	X	P016	1,000
Ethylthiocyanate	542-90-5	10,000	10,000				
Cadmium acetate	543-90-8			10	313c		
Cobaltous formate	544-18-3			1,000	313c		
Copper cyanide	544-92-3			10	313c	P029	
Lithium carbonate	554-13-2				313		
m-Nitrophenol	554-84-7			100			

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Tris(2-chloroethyl)amine	555-77-1	100	100				
Glycidol	556-52-5				313		
Isothiocyanatomethane	556-61-6	500	500		X		
Methyl isothiocyanate	556-61-6	500	500		313		
Methyl thiocyanate	556-64-9	10,000	10,000				20,000
Thiocyanic acid, methyl ester	556-64-9	10,000	10,000				20,000
Nickel cyanide	557-19-7			10	313c	P074	
Zinc cyanide	557-21-1			10	313c	P121	
Zinc acetate	557-34-6			1,000	313c		
Zinc formate	557-41-5			1,000	313c		
2-Chloropropylene	557-98-2						10,000
1-Propene, 2-chloro-	557-98-2						10,000
Methanesulfonyl fluoride	558-25-8	1,000	1,000				
Ethion	563-12-2	1,000	10	10			
Semicarbazide hydrochloride	563-41-7	1,000/10,000	1,000				
3-Methyl-1-butene	563-45-1						10,000
2-Methyl-1-butene	563-46-2						10,000
3-Chloro-2-methyl-1-propene	563-47-3				313		
Thallium(I) acetate	563-68-8			100	313c	U214	
C.I. Basic Green 4	569-64-2				313		
2,6-Dinitrophenol	573-56-8			10			
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	500	100	100	X		10,000
Toluene-2,4-diisocyanate	584-84-9	500	100	100	313		10,000
2-Butene-cis	590-18-1						10,000
1-Chloropropylene	590-21-6						10,000
1-Propene, 1-chloro-	590-21-6						10,000
1-Acetyl-2-thiourea	591-08-2			1,000		P002	
Calcium cyanide	592-01-8			10	313c	P021	
Mercuric cyanide	592-04-1			1	313c		
Mercuric thiocyanate	592-85-8			10	313c		
Lead thiocyanate	592-87-0			10	313c		
Vinyl bromide	593-60-2			100	313		
Methanesulfenyl chloride, trichloro-	594-42-3	500	100	100	X		10,000
Perchloromethyl mercaptan	594-42-3	500	100	100	313		10,000
Trichloromethanesulfenyl chloride	594-42-3	500	100	100	X		10,000
Tetraethyltin	597-64-8	100	100				
Bromoacetone	598-31-2			1,000		P017	
Bromotrifluoroethylene	598-73-2						10,000
Ethene, bromotrifluoro-	598-73-2						10,000
2,6-Dinitrotoluene	606-20-2			100	313	U106	
Hexachlorocyclohexane (all isomers)	608-73-1			&			
Pentachlorobenzene	608-93-5			10	313	U183	
3,4,5-Trichlorophenol	609-19-8			10			
3,4-Dinitrotoluene	610-39-9			10			
3,3'-Dimethylbenzidine dihydrochloride	612-82-8				313		
o-Tolidine dihydrochloride	612-82-8				X		
3,3'-Dichlorobenzidine dihydrochloride	612-83-9				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Thiourea, (2-methylphenyl)-	614-78-8	500/10,000	500				
2,4-Diaminoanisole	615-05-4				313		
1,2-Phenylenediamine dihydrochloride	615-28-1				313		
N-Nitroso-N-methylurethane	615-53-2			1		U178	
Di-n-propylnitrosamine	621-64-7			10	X	U111	
N-Nitrosodi-n-propylamine	621-64-7			10	313	U111	
1,4-Phenylenediamine dihydrochloride	624-18-0				313		
2-Butene, (E)	624-64-6						10,000
2-Butene-trans	624-64-6						10,000
Methane, isocyanato-	624-83-9	500	10	10	X	P064	10,000
Methyl isocyanate	624-83-9	500	10	10	313	P064	10,000
tert-Amyl acetate	625-16-1			5,000			
sec-Amyl acetate	626-38-0			5,000			
Chloroethyl chloroformate	627-11-2	1,000	1,000				
2-Pentene, (Z)-	627-20-3						10,000
Amyl acetate	628-63-7			5,000			
Mercury fulminate	628-86-4			10	313c	P065	
Selenourea	630-10-4			1,000		P103	
Ethane, 1,1,1,2-tetrachloro-	630-20-6			100	X	U208	
1,1,1,2-Tetrachloroethane	630-20-6			100	313	U208	
Ouabain	630-60-4	100/10,000	100				
Ammonium acetate	631-61-8			5,000			
o-Toluidine hydrochloride	636-21-5			100	313	U222	
Triphenyltin chloride	639-58-7	500/10,000	500		313		
Fluoroacetamide	640-19-7	100/10,000	100	100		P057	
Dimetilan	644-64-4	500/10,000	1	1		P191	
2-Pentene, (E)-	646-04-8						10,000
Cyanuric fluoride	675-14-9	100	100		313c		
Methyl phosphonic dichloride	676-97-1	100	100				
Hexamethylphosphoramide	680-31-9			1	313		
N-Nitroso-N-methylurea	684-93-5			1	313	U177	
1-Buten-3-yne	689-97-4						10,000
Vinyl acetylene	689-97-4						10,000
Diethylarsine	692-42-2			1		P038	
Dichlorophenylarsine	696-28-6	500	1	1		P036	
Phenyl dichloroarsine	696-28-6	500	1	1		P036	
N-(3,4-Dichlorophenyl)propanamide	709-98-8				X		
Propanil	709-98-8				313		
Hexaethyl tetraphosphate	757-58-4			100		P062	
N-Nitroso-N-ethylurea	759-73-9			1	313	U176	
EPTC	759-94-4				X		
Ethyl dipropylthiocarbamate	759-94-4				313		
Methacrylic anhydride	760-93-0	500	500				
2-Butene, 1,4-dichloro-	764-41-0			1	X	U074	
1,4-Dichloro-2-butene	764-41-0			1	313	U074	
Glycidylaldehyde	765-34-4			10		U126	
Carbophenothion	786-19-6	500	500				
1,1-Dichloro-1,2,2-trifluoroethane	812-04-4				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
HCFC-123b	812-04-4				X		
Diethyl chlorophosphate	814-49-3	500	500				
Acrylyl chloride	814-68-6	100	100				5,000
2-Propenoyl chloride	814-68-6	100	100				5,000
Cupric tartrate	815-82-7			100	313c		
Hexamethylene-1,6-diisocyanate	822-06-0			100	313#		
Diaminotoluene	823-40-5			10		U221	
Trimethylolpropane phosphite	824-11-3	100/10,000	100				
Ametryn	834-12-8				313		
N-Ethyl-N'-(1-methylethyl)-6-(methylthio)-1,3,5,-triazine-2,4-diamine	834-12-8				X		
C.I. Solvent Yellow 14	842-07-9				313		
N-Methyl-2-pyrrolidone	872-50-4				313		
Stannane, acetoxytriphenyl-	900-95-8	500/10,000	500				
Demeton-S-methyl	919-86-8	500	500				
Methacryloyl chloride	920-46-7	100	100				
N-Nitrosodi-n-butylamine	924-16-3			10	313	U172	
N-Methylolacrylamide	924-42-5				313		
N-Nitrosopyrrolidine	930-55-2			1		U180	
2,3,6-Trichlorophenol	933-75-5			10	313c		
2,3,5-Trichlorophenol	933-78-8			10	313c		
Fonofos	944-22-9	500	500				
Phosfolan	947-02-4	100/10,000	100				
Mephosfolan	950-10-7	500	500				
Methidathion	950-37-8	500/10,000	500				
Diphenamid	957-51-7				313		
alpha - Endosulfan	959-98-8			1			
Phosphoric acid, 2-chloro-1-(2,3,5-trichlorophenyl) ethenyl dimethyl ester	961-11-5				X		
Tetrachlorvinphos	961-11-5				313		
C.I. Basic Red 1	989-38-8				313		
Norbormide	991-42-4	100/10,000	100				
Triethoxysilane	998-30-1	500	500				
Chlormequat chloride	999-81-5	100/10,000	100				
Heptachlor epoxide	1024-57-3			1			
Endosulfan sulfate	1031-07-8			1			
Triamiphos	1031-47-6	500/10,000	500				
Chromic acetate	1066-30-4			1,000	313c		
Ammonium bicarbonate	1066-33-7			5,000			
Trimethyltin chloride	1066-45-1	500/10,000	500				
Lead stearate	1072-35-1			10	313c		
Ammonium carbamate	1111-78-0			5,000			
Butylethylcarbamothioic acid S-propyl ester	1114-71-2				X		
Pebulate	1114-71-2				313		
N-Nitrosodiethanolamine	1116-54-7			1		U173	
Propane sultone	1120-71-4			10	313	U193	
1,3-Propane sultone	1120-71-4			10	X	U193	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Nitrocyclohexane	1122-60-7	500	500				
Pyridine, 4-nitro-, 1-oxide	1124-33-0	500/10,000	500				
Metolcarb	1129-41-5	100/10,000	1,000	1,000		P190	
Cycloate	1134-23-2				313		
Decabromodiphenyl oxide	1163-19-5				313		
Ferric ammonium citrate	1185-57-5			1,000			
Dichlobenil	1194-65-6			100			
Xylenol	1300-71-6			1,000			
Arsenic pentoxide	1303-28-2	100/10,000	1	1	313c	P011	
Arsenic disulfide	1303-32-8			1	313c		
Arsenic trisulfide	1303-33-9			1	313c		
Cadmium oxide	1306-19-0	100/10,000	100		313c		
Antimony trioxide	1309-64-4			1,000	313c		
Potassium hydroxide	1310-58-3			1,000			
Sodium hydroxide	1310-73-2			1,000			
Molybdenum trioxide	1313-27-5				313		
Thorium dioxide	1314-20-1				313		
Thallic oxide	1314-32-5			100	313c	P113	
Vanadium pentoxide	1314-62-1	100/10,000	1,000	1,000	313c	P120	
Sulfur phosphide	1314-80-3			100		U189	
Zinc phosphide	1314-84-7	500	100	100	313c	P122	
Zinc phosphide (conc. <= 10%)	1314-84-7	500	100	100	313c	U249	
Zinc phosphide (conc. > 10%)	1314-84-7	500	100	100	313c	P122	
Lead sulfide	1314-87-0			10	313c		
2,4,5-T amines	1319-72-8			5,000			
Cresol (mixed isomers)	1319-77-3			100	313	U052	
2,4-D Esters	1320-18-9			100	X		
2,4-D propylene glycol butyl ether ester	1320-18-9			100	313		
Nitrotoluene	1321-12-6			1,000			
Arsenic trioxide	1327-53-3	100/10,000	1	1	313c	P012	
Arsenous oxide	1327-53-3	100/10,000	1	1	313c	P012	
Xylene (mixed isomers)	1330-20-7			100	313	U239	
Zinc borate	1332-07-6			1,000	313c		
Asbestos (friable)	1332-21-4			1	313		
Hydrogen	1333-74-0						10,000
Sodium bifluoride	1333-83-1			100			
Lead subacetate	1335-32-6			10	313c	U146	
Hexachloronaphthalene	1335-87-1				313		
Ammonium hydroxide	1336-21-6			1,000	313		
PCBs	1336-36-3			1	X		
Polychlorinated biphenyls	1336-36-3			1	313		
Methyl ethyl ketone peroxide	1338-23-4			10		U160	
Naphthenic acid	1338-24-5			100			
Ammonium bifluoride	1341-49-7			100			
Aluminum oxide (fibrous forms)	1344-28-1				313		
Antimycin A	1397-94-0	1,000/10,000	1,000				
Dinoterb	1420-07-1	500/10,000	500				

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2,2'-Bioxirane	1464-53-5	500	10	10	X	U085	
Diepoxybutane	1464-53-5	500	10	10	313	U085	
Trichloro(chloromethyl)silane	1558-25-4	100	100				
Carbofuran phenol	1563-38-8			10		U367	
Carbofuran	1563-66-2	10/10,000	10	10	313	P127	
Benezeneamine, 2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)-	1582-09-8			10	X		
Trifluralin	1582-09-8			10	313		
Mercuric acetate	1600-27-7	500/10,000	500		313c		
Hydrazine, 1,2-diethyl-	1615-80-1			10		U086	
Ethanesulfonyl chloride, 2-chloro-	1622-32-8	500	500				
Methyl tert-butyl ether	1634-04-4			1,000	313		
Aldicarb sulfone	1646-88-4			100		P203	
1,2-Dichloro-1,1-difluoroethane	1649-08-7				313		
HCFC-132b	1649-08-7				X		
Bromoxynil	1689-84-5				313		
3,5-Dibromo-4-hydroxybenzonitrile	1689-84-5				X		
Bromoxynil octanoate	1689-99-2				313		
Octanoic acid, 2,6-dibromo-4-cyanophenyl ester	1689-99-2				X		
1,1-Dichloro-1-fluoroethane	1717-00-6				313		
HCFC-141b	1717-00-6				X		
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6			1	313!		
Acetone thiosemicarbazide	1752-30-3	1,000/10,000	1,000				
Ammonium thiocyanate	1762-95-4			5,000			
Benzene, 2,4-dichloro-1-(4-nitrophenoxy)-	1836-75-5				X		
Nitrofen	1836-75-5				313		
Benfluralin	1861-40-1				313		
N-Butyl-N-ethyl-2,6-dinitro-4-(trifluoromethyl) benzenamine	1861-40-1				X		
Ammonium benzoate	1863-63-4			5,000			
Hexachloropropene	1888-71-7			1,000		U243	
1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-	1897-45-6				X		
Chlorothalonil	1897-45-6				313		
Paraquat dichloride	1910-42-5	10/10,000	10		313		
Atrazine	1912-24-9				313		
6-Chloro-N-ethyl-N'-(1-methylethyl)-1,3,5-triazine-2,4-diamine	1912-24-9				X		
Dicamba	1918-00-9			1,000	313		
3,6-Dichloro-2-methoxybenzoic acid	1918-00-9			1,000	X		
Picloram	1918-02-1				313		
2-Chloro-N-(1-methylethyl)-N-phenylacetamide	1918-16-7				X		
Propachlor	1918-16-7				313		
2,4-D Esters	1928-38-7			100			
2,4-D 2-ethylhexyl ester	1928-43-4				313		
2,4,5-T esters	1928-47-8			1,000			

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2,4-D Esters	1928-61-6			100			
2,4-D butoxyethyl ester	1929-73-3			100	313		
2,4-D Esters	1929-73-3			100	X		
2-Chloro-6-(trichloromethyl)pyridine	1929-82-4				X		
Nitrapyrin	1929-82-4				313		
C.I. Direct Black 38	1937-37-7				313		
Chloroxuron	1982-47-4	500/10,000	500				
3,6-Dichloro-2-methoxybenzoic acid, sodium salt	1982-69-0				X		
Sodium dicamba	1982-69-0				313		
Tributyltin fluoride	1983-10-4				313		
Valinomycin	2001-95-8	1,000/10,000	1,000				
2,4,5-T amines	2008-46-0			5,000			
Mercaptodimethur	2032-65-7	500/10,000	10	10	X	P199	
Methiocarb	2032-65-7	500/10,000	10	10	313	P199	
Paraquat methosulfate	2074-50-2	10/10,000	10				
Phenylsilatrane	2097-19-0	100/10,000	100				
EPN	2104-64-5	100/10,000	100				
Tributyltin methacrylate	2155-70-6				313		
Dipotassium endothall	2164-07-0				313		
7-Oxabicyclo(2.2.1)heptane-2,3-dicarboxylic acid, dipotassium salt	2164-07-0				X		
Fluometuron	2164-17-2				313		
Urea, N,N-dimethyl-N'-[3-(trifluoromethyl)phenyl]-	2164-17-2				X		
1H-Azepine-1 carbothioic acid, hexahydro-S-ethyl ester	2212-67-1				X		
Molinate	2212-67-1				313		
Cadmium stearate	2223-93-0	1,000/10,000	1,000		313c		
Thiocarbazide	2231-57-4	1,000/10,000	1,000				
Octachloronaphthalene	2234-13-1				313		
Diglycidyl ether	2238-07-5	1,000	1,000				
Prothoate	2275-18-5	100/10,000	100				
Dimethylamine dicamba	2300-66-5				313		
Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl)ester	2303-16-4			100	X	U062	
Diallate	2303-16-4			100	313	U062	
Triallate	2303-17-5			100	313	U389	
Propargite	2312-35-8			10	313		
Chinomethionat	2439-01-2				313		
6-Methyl-1,3-dithiolo[4,5-b]quinoxalin-2-one	2439-01-2				X		
Dodecylguanidine monoacetate	2439-10-3				X		
Dodine	2439-10-3				313		
Oxydisulfoton	2497-07-6	500	500				
Dimethyl chlorothiophosphate	2524-03-0	500	500		313		
Dimethyl phosphorochloridothioate	2524-03-0	500	500		X		
Formothion	2540-82-1	100	100				

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2,4,5-T esters	2545-59-7			1,000			
1,4-Cyclohexane diisocyanate	2556-36-7				313#		
Pentadecylamine	2570-26-5	100/10,000	100				
Phosphorothioic acid, O,O-dimethyl-5-(2-(methylthio)ethyl)ester	2587-90-8	500	500				
C.I. Direct Blue 6	2602-46-2				313		
Promecarb	2631-37-0	500/10,000	1,000	1,000		P201	
Cyanophos	2636-26-2	1,000	1,000				
Azinphos-ethyl	2642-71-9	100/10,000	100				
2,3,5-Trimethylphenyl methylcarbamate	2655-15-4				313		
Phosphonothioic acid, methyl-, O-(4-nitrophenyl) O-phenyl ester	2665-30-7	500	500				
Sulfuryl fluoride	2699-79-8				313		
Vikane	2699-79-8				X		
2,4-D sodium salt	2702-72-9				313		
Phosphonothioic acid, methyl-, O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1	500	500				
Thallous malonate	2757-18-8	100/10,000	100				
5-(Aminomethyl)-3-isoxazolol	2763-96-4	500/10,000	1,000	1,000		P007	
Muscimol	2763-96-4	500/10,000	1,000	1,000		P007	
Diquat	2764-72-9			1,000			
Endothion	2778-04-3	500/10,000	500				
C.I. Disperse Yellow 3	2832-40-8				313		
2-Chloro-1,1,1,2-tetrafluoroethane	2837-89-0				313		
HCFC-124	2837-89-0				X		
Chlorpyrifos	2921-88-2			1			
Ferric ammonium oxalate	2944-67-4			1,000			
2,4-D chlorocrotyl ester	2971-38-2			100	313		
2,4-D Esters	2971-38-2			100	X		
Ammonium citrate, dibasic	3012-65-5			5,000			
Silane, (4-aminobutyl)diethoxymethyl-	3037-72-7	1,000	1,000				
C.I. Solvent Orange 7	3118-97-6				313		
Ammonium tartrate	3164-29-2			5,000			
4-Chloro-o-toluidine, hydrochloride	3165-93-3			100		U049	
1,5-Naphthalene diisocyanate	3173-72-6				313#		
Cupric nitrate	3251-23-8			100	313c		
Phosphoric acid, dimethyl 4-(methylthio) phenyl ester	3254-63-5	500	500				
1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	3268-87-9				313!		
O,O-Diethyl S-methyl dithiophosphate	3288-58-2			5,000		U087	
2,2-bis(Bromomethyl)-1,3-propanediol	3296-90-0				313		
Temephos	3383-96-8				313		
Zinc carbonate	3486-35-9			1,000	313c		
DDE	3547-04-4			5,000			
Sulfoxide, 3-chloropropyl octyl	3569-57-1	500	500				
Benzimidazole, 4,5-dichloro-2-(trifluoromethyl)-	3615-21-2	500/10,000	500				

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
(4-Chloro-2-methylphenoxy) acetate sodium salt	3653-48-3				X		
Methoxone sodium salt	3653-48-3				313		
Sulfotep	3689-24-5	500	100	100		P109	
Tetraethyldithiopyrophosphate	3689-24-5	500	100	100		P109	
Chlorophacinone	3691-35-8	100/10,000	100				
5-Methylchrysene	3697-24-3				313+		
Amiton oxalate	3734-97-2	100/10,000	100				
Methyl phenkapton	3735-23-7	500	500				
C.I. Food Red 5	3761-53-3				313		
2,4,5-T amines	3813-14-7			5,000			
Fuberidazole	3878-19-1	100/10,000	100				
Bitoscanate	4044-65-9	500/10,000	500				
1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	4080-31-3				313		
Isophorone diisocyanate	4098-71-9	500	500		313#		
Phosacetim	4104-14-7	100/10,000	100				
Dichlorosilane	4109-96-0						10,000
Silane, dichloro-	4109-96-0						10,000
4,4'-Diisocyanatodiphenyl ether	4128-73-8				313#		
2-Butenal	4170-30-3	1,000	100	100	X	U053	20,000
Crotonaldehyde	4170-30-3	1,000	100	100	313	U053	20,000
Fluenetil	4301-50-2	100/10,000	100				
Phenol, 2,2'-thiobis[4-chloro-6-methyl-	4418-66-0	100/10,000	100				
N-Nitrosomethylvinylamine	4549-40-0			10	313	P084	
C.I. Acid Green 3	4680-78-8				313		
Hexamethylenediamine, N,N'-dibutyl-	4835-11-4	500	500				
1,1'-Methylene bis(4-isocyanatocyclohexane)	5124-30-1				313#		
Carboxin	5234-68-4				313		
5,6-Dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide	5234-68-4				X		
Thiourea, (2-chlorophenyl)-	5344-82-1	100/10,000	100	100		P026	
Dibenzo(a,e)fluoranthene	5385-75-1				313+		
1-Nitropyrene	5522-43-0				313+		
Chlorpyrifos methyl	5598-13-0				313		
O,O-Dimethyl-O-(3,5,6-trichloro-2-pyridyl)phosphorothioate	5598-13-0				X		
Coumatetralyl	5836-29-3	500/10,000	500				
Cupric oxalate	5893-66-3			100	313c		
5-Chloro-3-(1,1-dimethylethyl)-6-methyl-2,4(1H,3H)-pyrimidinedione	5902-51-2				X		
Terbacil	5902-51-2				313		
Ethanol, 2,2'-oxybis-, dicarbamate	5952-26-1			5,000		U395	
Ammonium oxalate	5972-73-6			5,000			
Ammonium oxalate	6009-70-7			5,000			
2,4,5-T amines	6369-96-6			5,000			
2,4,5-T amines	6369-97-7			5,000			
C.I. Acid Red 114	6459-94-5				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Thallium(I) carbonate	6533-73-9	100/10,000	100	100	313c	U215	
Thallous carbonate	6533-73-9	100/10,000	100	100	313c	U215	
Monocrotophos	6923-22-4	10/10,000	10				
4-Chlorophenyl phenyl ether	7005-72-3			5,000			
N,N'-Bis(1-methylethyl)-6-methylthio-1,3,5-triazine-2,4-diamine	7287-19-6				X		
Prometryn	7287-19-6				313		
Endrin aldehyde	7421-93-4			1			
Lead stearate	7428-48-0			10	313c		
Aluminum (fume or dust)	7429-90-5				313		
Lead	7439-92-1			10	313		
Manganese	7439-96-5				313		
Mercury	7439-97-6			1	313	U151	
Nickel	7440-02-0			100	313		
Silver	7440-22-4			1,000	313		
Sodium	7440-23-5			10			
Thallium	7440-28-0			1,000	313		
Antimony	7440-36-0			5,000	313		
Arsenic	7440-38-2			1	313		
Barium	7440-39-3				313		
Beryllium	7440-41-7			10	313	P015	
Cadmium	7440-43-9			10	313		
Chromium	7440-47-3			5,000	313		
Cobalt	7440-48-4				313		
Copper	7440-50-8			5,000	313		
Vandium (except when contained in an alloy)	7440-62-2				313		
Zinc (fume or dust)	7440-66-6			1,000	313		
Zinc	7440-66-6			1,000			
Selenium dioxide	7446-08-4			10	313c		
Sulfur dioxide	7446-09-5	500	500				
Sulfur dioxide (anhydrous)	7446-09-5	500	500				5,000
Sulfur trioxide	7446-11-9	100	100				10,000
Lead sulfate	7446-14-2			10	313c		
Thallium(I) sulfate	7446-18-6	100/10,000	100	100	313c	P115	
Thallous sulfate	7446-18-6	100/10,000	100	100	313c	P115	
Lead phosphate	7446-27-7			10	313c	U145	
Cupric chloride	7447-39-4			10	313c		
Mercuric chloride	7487-94-7	500/10,000	500		313c		
Selenium sulfide	7488-56-4			10	313c	U205	
6-Nitrochrysene	7496-02-8				313+		
Titanium chloride (TiCl4) (T-4)-	7550-45-0	100	1,000	1,000	X		2,500
Titanium tetrachloride	7550-45-0	100	1,000	1,000	313		2,500
Sodium phosphate, dibasic	7558-79-4			5,000			
Lithium hydride	7580-67-8	100	100				
Sodium arsenate	7601-54-9	1,000/10,000	1	1	313c		
Sodium bisulfite	7631-90-5			5,000			
Sodium nitrite	7632-00-0			100	313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Borane, trifluoro-	7637-07-2	500	500		X		5,000
Boron trifluoride	7637-07-2	500	500		313		5,000
Lead arsenate	7645-25-2			1	313c		
Zinc chloride	7646-85-7			1,000	313c		
Hydrochloric acid	7647-01-0			5,000			
Hydrochloric acid (conc 37% or greater)	7647-01-0			5,000			15,000
Hydrochloric acid (aerosol forms only)	7647-01-0			5,000	313		
Hydrogen chloride (anhydrous)	7647-01-0	500	5,000	5,000	X		5,000
Hydrogen chloride (gas only)	7647-01-0	500	5,000	5,000	X		5,000
Antimony pentachloride	7647-01-0			1,000			
Phosphoric acid	7664-38-2			5,000			
Hydrofluoric acid	7664-39-3	100	100	100	X	U134	
Hydrofluoric acid (conc. 50% or greater)	7664-39-3	100	100	100	X	U134	1,000
Hydrogen fluoride	7664-39-3	100	100	100	313	U134	
Hydrogen fluoride (anhydrous)	7664-39-3	100	100	100	X	U134	1,000
Ammonia	7664-41-7	500	100	100	313		
Ammonia (anhydrous)	7664-41-7	500	100	100	X		10,000
Ammonia (conc 20% or greater)	7664-41-7			1,000	X		20,000
Sulfuric acid (aerosol forms only)	7664-93-9	1,000	1,000	1,000	313		
Sulfuric acid	7664-93-9	1,000	1,000	1,000			
Sodium fluoride	7681-49-4			1,000			
Sodium hypochlorite	7681-52-9			100			
2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl ester	7696-12-0				X		
Tetramethrin	7696-12-0				313		
Nitric acid	7697-37-2	1,000	1,000	1,000	313		
Nitric acid (conc 80% or greater)	7697-37-2	1,000	1,000	1,000	X		15,000
Zinc bromide	7699-45-8			1,000	313c		
Ferric chloride	7705-08-0			1,000			
Nickel chloride	7718-54-9			100	313c		
Phosphorous trichloride	7719-12-2	1,000	1,000	1,000			15,000
Phosphorus trichloride	7720-78-7	1,000	1,000	1,000			15,000
Ferrous sulfate	7720-78-7			1,000			
Potassium permanganate	7722-64-7			100	313c		
Hydrogen peroxide (Conc.> 52%)	7722-84-1	1,000	1,000				
Phosphorus (yellow or white)	7723-14-0	100	1	1	313		
Phosphorus	7723-14-0	100	1	1			
Bromine	7726-95-6	500	500		313		10,000
Zinc sulfate	7733-02-0			1,000	313c		
Chromic acid	7738-94-5			10	313c		
Potassium bromate	7758-29-4				313		
Sodium phosphate, tribasic	7758-29-4			5,000			
Ferrous chloride	7758-94-3			100			
Lead chloride	7758-95-4			10	313c		
Cupric sulfate	7758-98-7			10	313c		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Silver nitrate	7761-88-8			1	313c		
Ammonium sulfamate	7773-06-0			5,000			
Sodium chromate	7778-39-4			10	313c		
Arsenic acid	7778-39-4			1	313c	P010	
Calcium arsenate	7778-44-1	500/10,000	1	1	313c		
Potassium bichromate	7778-50-9			10	313c		
Calcium hypochlorite	7778-54-3			10			
Zinc hydrosulfite	7779-86-4			1,000	313c		
Zinc nitrate	7779-88-6			1,000	313c		
Fluorine	7782-41-4	500	10	10	313	P056	1,000
Selenium	7782-49-2			100	313		
Chlorine	7782-50-5	100	10	10	313		2,500
Ferrous sulfate	7782-63-0			1,000			
Sodium selenite	7782-82-3			100	313c		
Mercurous nitrate	7782-86-7			10	313c		
Selenious acid	7783-00-8	1,000/10,000	10	10	313c	U204	
Hydrogen sulfide	7783-07-5	500	100	100	313	U135	10,000
Hydrogen selenide	7783-35-9	10	10		313c		500
Mercuric sulfate	7783-35-9			10	313c		
Lead fluoride	7783-46-2			10	313c		
Zinc fluoride	7783-49-5			1,000	313c		
Ferric fluoride	7783-50-8			100			
Antimony trifluoride	7783-56-4			1,000	313c		
Sulfur fluoride (SF4), (T-4)-	7783-60-0	100	100				2,500
Sulfur tetrafluoride	7783-60-0	100	100				2,500
Antimony pentafluoride	7783-70-2	500	500		313c		
Tellurium hexafluoride	7783-80-4	100	100				
Arsenous trichloride	7784-34-1	500	1	1	313c		15,000
Lead arsenate	7784-40-9			1	313c		
Potassium arsenate	7784-41-0			1	313c		
Arsine	7784-42-1	100	100				1,000
Sodium arsenite	7784-46-5	500/10,000	1	1	313c		
Mevinphos	7786-34-7	500	10	10	313		
Nickel sulfate	7786-81-4			100	313c		
Beryllium chloride	7787-47-5			1	313c		
Beryllium fluoride	7787-49-7			1	313c		
Beryllium nitrate	7787-55-5			1	313c		
Ammonium chromate	7788-98-9			10	313c		
Potassium chromate	7789-00-6			10	313c		
Strontium chromate	7789-06-2			10	313c		
Ammonium bichromate	7789-09-5			10	313c		
Cadmium bromide	7789-42-6			10	313c		
Cobaltous bromide	7789-43-7			1,000	313c		
Antimony tribromide	7789-61-9			1,000	313c		
Chlorosulfonic acid	7790-94-5			1,000			
Thallium chloride TlCl	7791-12-0	100/10,000	100	100	313c	U216	
Thallous chloride	7791-12-0	100/10,000	100	100	313c	U216	
Chlorine monoxide	7791-21-1						10,000

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Chlorine oxide	7791-21-1						10,000
Selenium oxychloride	7791-23-3	500	500		313c		
Phosphine	7803-51-2	500	100	100	313	P096	5,000
Ammonium vanadate	7803-55-6			1,000	313c	P119	
Silane	7803-62-5						10,000
Camphechlor	8001-35-2	500/10,000	1	1	X	P123	
Camphene, octachloro-	8001-35-2	500/10,000	1	1	X	P123	
Toxaphene	8001-35-2	500/10,000	1	1	313	P123	
Creosote	8001-58-9				313		
Dichloropropane - Dichloropropene (mixture)	8003-19-8			100			
Pyrethrins	8003-34-7			1			
Oleum (fuming sulfuric acid)	8014-95-7			1,000			10,000
Sulfuric acid (fuming)	8014-95-7			1,000			10,000
Sulfuric acid, mixture with sulfur trioxide	8014-95-7			1,000			10,000
Demeton	8065-48-3	500	500				
Metiram	9006-42-2				313		
Polymeric diphenylmethane diisocyanate	9016-87-9				313#		
Sodium hypochlorite	10022-70-5			100			
Chromic chloride	10025-73-7	1/10,000	1		313c		
Silane, trichloro-	10025-78-2						10,000
Trichlorosilane	10025-78-2						10,000
Phosphorus oxychloride	10025-87-3	500	1,000	1,000			5,000
Phosphoryl chloride	10025-87-3	500	1,000	1,000			5,000
Antimony trichloride	10025-91-9			1,000	313c		
Zirconium tetrachloride	10026-11-6			5,000			
Phosphorus pentachloride	10026-13-8	500	500				
Ozone	10028-15-6	100	100		313		
Ferric sulfate	10028-22-5			1,000			
Thallium sulfate	10031-59-1	100/10,000	100	100	313c		
Hydrazine sulfate	10034-93-2				313		
Sodium phosphate, dibasic	10039-32-4			5,000			
Aluminum sulfate	10043-01-3			5,000			
Ferrous ammonium sulfate	10045-89-3			1,000			
Mercuric nitrate	10045-94-0			10	313c		
Chlorine dioxide	10049-04-4				313		1,000
Chlorine oxide (ClO2)	10049-04-4				X		1,000
Chromous chloride	10049-05-5			1,000	313c		
trans-1,3-Dichloropropene	10061-02-6				313		
Lead nitrate	10099-74-8			10	313c		
Chromic sulfate	10101-53-8			1,000	313c		
Lead iodide	10101-63-0			10	313c		
Sodium phosphate, tribasic	10101-89-0			5,000			
Uranyl nitrate	10102-06-4			100			
Sodium selenite	10102-18-8	100/10,000	100	100	313c		
Sodium tellurite	10102-20-2	500/10,000	500				
Nitric oxide	10102-43-9	100	10	10 @		P076	10,000

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Nitrogen oxide (NO)	10102-43-9	100	10	10 @		P076	10,000
Nitrogen dioxide	10102-44-0	100	10	10 @		P078	
Thallium(I) nitrate	10102-45-1			100	313c	U217	
Lead arsenate	10102-48-4			1	313c		
Cadmium chloride	10108-64-2			10	313c		
Potassium arsenite	10124-50-2	500/10,000	1	1	313c		
Sodium phosphate, dibasic	10140-65-5			5,000			
Ethanol, 1,2-dichloro-, acetate	10140-87-1	1,000	1,000				
Ammonium bisulfite	10192-30-0			5,000			
Ammonium sulfite	10196-04-0			5,000			
Cobalt carbonyl	10210-68-1	10/10,000	10		313c		
2,2-Dibromo-3-nitrilopropionamide	10222-01-2				313s		
Methamidophos	10265-92-6	100/10,000	100				
Borane, trichloro-	10294-34-5	500	500		X		5,000
Boron trichloride	10294-34-5	500	500		313		5,000
Dialifor	10311-84-9	100/10,000	100				
1,4-Bis(methylisocyanate)cyclohexane	10347-54-3				313#		
Sodium phosphate, tribasic	10361-89-4			5,000			
Cupric sulfate, ammoniated	10380-29-7			100	313c		
Mercurous nitrate	10415-75-5			10	313c		
Ferric nitrate	10421-48-4			1,000			
5-(Phenylmethyl)-3-furanyl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate	10453-86-8				X		
Resmethrin	10453-86-8				313		
Methacrolein diacetate	10476-95-6	1,000	1,000				
Nitrogen dioxide	10544-72-6			10 @			
Sodium bichromate	10588-01-9			10	313c		
Carbendazim	10605-21-7			10		U372	
Aroclor 1260	11096-82-5			1			
Aroclor 1254	11097-69-1			1			
Aroclor 1221	11104-28-2			1			
Chromic acid	11115-74-5			10	313c		
Aroclor 1232	11141-16-5			1			
Cupric acetoarsenite	12002-03-8	500/10,000	1	1	313c		
Paris green	12002-03-8	500/10,000	1	1			
Selenious acid, dithallium(1+) salt	12039-52-0			1,000	313c	P114	
Nickel hydroxide	12054-48-7			10	313c		
Manganese, tricarbonyl methylcyclopentadienyl	12108-13-3	100	100		313c		
Carbamodithioic acid, 1,2-ethanediylbis-, zinc complex	12122-67-7				X		
Zineb	12122-67-7				313		
Ammonium fluoride	12125-01-8			100			
Ammonium chloride	12125-02-9			5,000			
Ammonium sulfide	12135-76-1			100			
Carbamodithioic acid, 1,2-ethanediylbis-, manganese complex	12427-38-2				X		

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Maneb	12427-38-2				313		
Aroclor 1248	12672-29-6			1			
Aroclor 1016	12674-11-2			1			
Sulfur monochloride	12771-08-3			1,000			
Terbufos	13071-79-9	100	100				
Phosphamidon	13171-21-6	100	100				
Ethoprop	13194-48-4	1,000	1,000		313		
Ethoprophos	13194-48-4	1,000	1,000		X		
Phosphorodithioic acid O-ethyl S,S-dipropyl ester	13194-48-4	1,000	1,000		X		
Fenbutatin oxide	13356-08-6				313		
Hexakis(2-methyl-2-phenylpropyl)distannoxane	13356-08-6				X		
Sodium selenate	13410-01-0	100/10,000	100		313c		
Gallium trichloride	13450-90-3	500/10,000	500				
Nickel carbonyl	13463-39-3	1	10	10	313c	P073	1,000
Iron carbonyl (Fe(CO)5), (TB-5-11)-	13463-40-6	100	100		X		2,500
Iron, pentacarbonyl-	13463-40-6	100	100		313		2,500
1,1-Dichloro-1,2,2,3,3-pentafluoropropane	13474-88-9				313		
HCFC-225cc	13474-88-9				X		
2,4,5-T salts	13560-99-1			1,000			
Beryllium nitrate	13597-99-4			1	313c		
Desmedipham	13684-56-5				313		
Zirconium nitrate	13746-89-9			5,000			
Calcium chromate	13765-19-0			10	313c	U032	
Lead fluoborate	13814-96-5			10	313c		
Ammonium fluoborate	13826-83-0			5,000			
sec-Butylamine	13952-84-6			1,000			
Cobaltous sulfamate	14017-41-5			1,000	313c		
Salcomine	14167-18-1	500/10,000	500				
Nickel nitrate	14216-75-2			100	313c		
Ammonium oxalate	14258-49-2			5,000			
Lithium chromate	14307-35-8			10	313c		
Ammonium tartrate	14307-43-8			5,000			
Ferbam	14484-64-1				313		
Tris(dimethylcarbamodithioato-S,S')iron	14484-64-1				X		
Zinc ammonium chloride	14639-97-5			1,000	313c		
Zinc ammonium chloride	14639-98-6			1,000	313c		
Zirconium sulfate	14644-61-2			5,000			
Bicyclo[2.2.1]heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)imino)-,(1-alpha,2-beta,4-alpha,5-alpha,6E))-	15271-41-7	500/10,000	500				
Manganese, bis(dimethylcarbamodithioato-S,S')-	15339-36-3			10	313c	P196	
2,4,4-Trimethylhexamethylene diisocyanate	15646-96-5				313#		
Nickel ammonium sulfate	15699-18-0			100	313c		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Lead sulfate	15739-80-7			10	313c		
2,3,4-Trichlorophenol	15950-66-0			10	313c		
Alachlor	15972-60-8				313		
C.I. Direct Brown 95	16071-86-6				313		
N-Nitrosonornicotine	16543-55-8				313		
Sodium hydrosulfide	16721-80-5			5,000			
Ethanimidothioic acid, N-[[methylamino)carbonyl]	16752-77-5	500/10,000	100	100		P066	
Methomyl	16752-77-5	500/10,000	100	100		P066	
Zinc silicofluoride	16871-71-9			5,000	313c		
Ammonium silicofluoride	16919-19-0			1,000			
Zirconium potassium fluoride	16923-95-8			1,000			
2,2,4-Trimethylhexamethylene diisocyanate	16938-22-0				313#		
Decaborane(14)	17702-41-9	500/10,000	500				
Formparanate	17702-57-7	100/10,000	100	100		P197	
Benomyl	17804-35-2			10	313	U271	
Streptozotocin	18883-66-4			1		U206	
4-(Dipropylamino)-3,5-dinitrobenzenesulfonamide	19044-88-3				X		
Oryzalin	19044-88-3				313		
Diborane	19287-45-7	100	100				2,500
Diborane(6)	19287-45-7	100	100				2,500
1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	19408-74-3				313!		
Pentaborane	19624-22-7	500	500				
3-(2,4-Dichloro-5-(1-methylethoxy)phenyl)-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-one	19666-30-9				X		
Oxydiazon	19666-30-9				313		
o-Dianisidine dihydrochloride	20325-40-0				X		
3,3'-Dimethoxybenzidine dihydrochloride	20325-40-0				313		
2-(3,4-Dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3,5-dione	20354-26-1				X		
Methazole	20354-26-1				313		
Osmium oxide OsO4 (T-4)-	20816-12-0			1,000	X	P087	
Osmium tetroxide	20816-12-0			1,000	313	P087	
Digoxin	20830-75-5	10/10,000	10				
Daunomycin	20830-81-3			10		U059	
Aluminum phosphide	20859-73-8	500	100	100	313	P006	
Metribuzin	21087-64-9				313		
Fosthietan	21548-32-3	500	500				
Leptophos	21609-90-5	500/10,000	500				
Cyanazine	21725-46-2				313		
Mercuric oxide	21908-53-2	500/10,000	500		313c		
Chlorthiophos	21923-23-9	500	500				
Fenamiphos	22224-92-6	10/10,000	10				
Bendiocarb	22781-23-3			100	313	U278	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2,2-Dimethyl-1,3-benzodioxol-4-ol methylcarbamate	22781-23-3			100	X	U278	
Bendiocarb phenol	22961-82-6			1,000		U364	
Oxamyl	23135-22-0	100/10,000	100	100		P194	
Formetanate hydrochloride	23422-53-9	500/10,000	100	100		P198	
Pirimifos-ethyl	23505-41-1	1,000	1,000				
Thiophanate-methyl	23564-05-8			10	313	U409	
(1,2-Phenylenebis(iminocarbonothioyl)) biscarbamic acid diethyl ester	23564-06-9				X		
Thiophanate ethyl	23564-06-9				313		
Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl	23950-58-5			5,000	X	U192	
Pronamide	23950-58-5			5,000	313	U192	
Triazofos	24017-47-8	500	500				
Chlormephos	24934-91-6	500	500				
Dinitrobenzene (mixed isomers)	25154-54-5			100			
Nitrophenol (mixed isomers)	25154-55-6			100			
Sodium dodecylbenzenesulfonate	25155-30-0			1,000			
Butene	25167-67-3						10,000
Trichlorophenol	25167-82-2			10	313c		
2,4,5-T esters	25168-15-4			1,000			
2,4-D Esters	25168-26-7			100			
2-((Ethoxyl((1-methylethyl)amino]phosphinothioyl]oxy) benzoic acid 1-methylethyl ester	25311-71-1				X		
Isofenphos	25311-71-1				313		
Dinitrotoluene (mixed isomers)	25321-14-6			10	313		
Dichlorobenzene	25321-22-6			100	X		
Dichlorobenzene (mixed isomers)	25321-22-6			100	313		
Diaminotoluene (mixed isomers)	25376-45-8			10	313	U221	
Toluenediamine	25376-45-8			10	X	U221	
Dinitrophenol	25550-58-7			10			
2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (3-phenoxyphenyl)methyl ester	26002-80-2				X		
Phenothrin	26002-80-2				313		
Calcium dodecylbenzenesulfonate	26264-06-2			1,000			
Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-	26419-73-8	100/10,000	100	100		P185	
Benzene, 1,3-diisocyanatomethyl-	26471-62-5			100	X	U223	10,000
Toluenediisocyanate (mixed isomers)	26471-62-5			100	313	U223	10,000
Toluene diisocyanate (unspecified isomer)	26471-62-5			100	X	U223	10,000
Sodium azide (Na(N3))	26628-22-8	500	1,000	1,000	313	P105	
Dichloropropane	26638-19-7			1,000			
N,N'-(1,4-Piperazinediylbis(2,2,2-trichloroethylidene)) bisformamide	26644-46-2				X		
Triforine	26644-46-2				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Dichloropropene	26952-23-8			100			
Trichloro(dichlorophenyl)silane	27137-85-5	500	500				
Dodecylbenzenesulfonic acid	27176-87-0			1,000			
4-Chloro-5-(methylamino)-2-[3-(trifluoromethyl)phenyl]-3(2H)-pyridazinone	27314-13-2				X		
Norflurazon	27314-13-2				313		
Triethanolamine dodecylbenzene sulfonate	27323-41-7			1,000			
Vanadyl sulfate	27774-13-6			1,000	313c		
d-trans-Allethrin	28057-48-9				313		
d-trans-Chrysanthemic acid of d-allethrone	28057-48-9				X		
Carbamic acid, diethylthio-, S-(p-chlorobenzyl)	28249-77-6				X		
Thiobencarb	28249-77-6				313		
Antimony potassium tartrate	28300-74-5			100	313c		
Xylylene dichloride	28347-13-9	100/10,000	100				
C.I. Direct Blue 218	28407-37-6				313		
Bromadiolone	28772-56-7	100/10,000	100				
Octachlorostyrene	29082-74-4				313		
O-(2-(Diethylamino)-6-methyl-4-pyrimidinyl)-O,O-dimethyl phosphorothioate	29232-93-7				X		
Pirimiphos methyl	29232-93-7				313		
Paraformaldehyde	30525-89-4			1,000			
Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-, methyl ester	30558-43-1			5,000		U394	
Acephate	30560-19-1				313		
Acetylphosphoramidothioic acid O,S-dimethyl ester	30560-19-1				X		
Methacryloyloxyethyl isocyanate	30674-80-7	100	100				
3-((Ethylamino)methoxyphosphinothioyl)oxy)-2-butenoic acid, 1-methylethyl ester	31218-83-4				X		
Propetamphos	31218-83-4				313		
2,4,5-TP esters	32534-95-5			100			
Amitraz	33089-61-1				313		
beta - Endosulfan	33213-65-9			1			
N-(5-(1,1-Dimethylethyl)-1,3,4-thiadiazol-2-yl)-N,N'-dimethylurea	34014-18-1				X		
Tebuthiuron	34014-18-1				313		
Dichlorotrifluoroethane	34077-87-7				313		
Diflubenzuron	35367-38-5				313		
O-Ethyl O-(4-(methylthio)phenyl)phosphorodithioic acid S-propyl ester	35400-43-2				X		
Sulprofos	35400-43-2				313		
1-(2-(2,4-Dichlorophenyl)-2-(2-	35554-44-0				X		

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propenyloxy)ethyl)-1H-imidazole							
Imazalil	35554-44-0				313		
1-Bromo-1-(bromomethyl)-1,3-propanedicarbonitrile	35691-65-7				313		
1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	35822-46-9				313!		
Uranyl nitrate	36478-76-9			100			
Nickel chloride	37211-05-5			100	313c		
1,3-Bis(methylisocyanate)cyclohexane	38661-72-2				313#		
Diethatyl ethyl	38727-55-8				313		
1,2,3,4,6,7,8,9-octachlorodibenzofuran	39001-02-0				313!		
2,4-Diaminoanisole sulfate	39156-41-7				313		
Thiofanox	39196-18-4	100/10,000	100	100		P045	
1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	39227-28-6				313!		
Dinocap	39300-45-3				313		
Fenpropathrin	39515-41-8				313		
2,2,3,3-Tetramethylcyclopropane carboxylic acid cyano(3-phenoxyphenyl)methyl ester	39515-41-8				X		
1,2,3,7,8-pentachlorodibenzo-p-dioxin	40321-76-4				313!		
N-(1-Ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine	40487-42-1				X		
Pendimethalin	40487-42-1				313		
O-(4-Bromo-2-chlorophenyl)-O-ethyl-S-propylphosphorothioate	41198-08-7				X		
Profenofos	41198-08-7				313		
3,3'-Dimethylbenzidine dihydrofluoride	41766-75-0				313		
o-Tolidine dihydrofluoride	41766-75-0				X		
1,6-Dinitropyrene	42397-64-8				313+		
1,8-Dinitropyrene	42397-65-9				313+		
Isopropanolamine dodecylbenzene sulfonate	42504-46-1			1,000			
Oxyfluorfen	42874-03-3				313		
1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone	43121-43-3				X		
Triadimefon	43121-43-3				313		
3-(3,5-Dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione	50471-44-8				X		
Vinclozolin	50471-44-8				313		
Phosphonothioic acid, methyl-, S-(2-(bis(1-methylethyl)amino)ethyl) O-ethyl ester	50782-69-9	100	100				
2,3,7,8-tetrachlorodibenzofuran	51207-31-9				313!		
Hexazinone	51235-04-2				313		
2-(4-(2,4-Dichlorophenoxy)phenoxy)propanoic acid, methyl ester	51338-27-3				X		
Diclofop methyl	51338-27-3				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
4-Chloro-alpha-(1-methylethyl)benzeneacetic acid cyano(3-phenoxyphenyl)methyl ester	51630-58-1				X		
Fenvalerate	51630-58-1				313		
Zinc ammonium chloride	52628-25-8			1,000	313c		
3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropane carboxylic acid, (3-phenoxy-phenyl)methyl ester	52645-53-1				X		
Permethrin	52645-53-1				313		
Lead stearate	52652-59-2			10	313c		
Calcium arsenite	52740-16-6			1	313c		
Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester	52888-80-9			5,000		U387	
Bromacil, lithium salt	53404-19-6				313		
2,4-(1H,3H)-Pyrimidinedione, 5-bromo-6-methyl-3-(1-methylpropyl), lithium salt	53404-19-6				X		
2,4-D 2-ethyl-4-methylpentyl ester	53404-37-8				313		
Dazomet, sodium salt	53404-60-7				313		
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione, ion(1-), sodium	53404-60-7				X		
2,4-D Esters	53467-11-1			100			
Aroclor 1242	53469-21-9			1			
Pyriminil	53558-25-1	100/10,000	100				
Carbosulfan	55285-14-8			1,000		P189	
2,3,-Dihydro-5,6-dimethyl-1,4-dithiin 1,1,4,4-tetraoxide	55290-64-7				X		
Dimethipin	55290-64-7				313		
3-Iodo-2-propynyl butylcarbamate	55406-53-6				313		
Ferric ammonium oxalate	55488-87-4			1,000			
1,2,3,4,7,8,9-heptachlorodibenzofuran	55673-89-7				313!		
Lead stearate	56189-09-4			10	313c		
2,3,4,7,8-pentachlorodibenzofuran	57117-31-4				313!		
1,2,3,7,8-pentachlorodibenzofuran	57117-41-6				313!		
1,2,3,6,7,8-hexachlorodibenzofuran	57117-44-9				313!		
Triclopyr triethylammonium salt	57213-69-1				313		
1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	57653-85-7				313!		
4–Nitropyrene	57835-92-4				313+		
Zinc, dichloro(4,4-dimethyl-5((((methylamino)carbonyl)oxy)imino) pentanenitrile)-, (T-4)-	58270-08-9	100/10,000	100		313c		
Thiodicarb	59669-26-0			100	313	U410	
.alpha.-(2-Chlorophenyl)-.alpha.-4-chlorophenyl)-5-pyrimidinemethanol	60168-88-9				X		
Fenarimol	60168-88-9				313		
1-(2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)-methyl-1H-1,2,4,-triazole	60207-90-1				X		
Propiconazole	60207-90-1				313		
2,3,4,6,7,8-hexachlorodibenzofuran	60851-34-5				313!		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2,4,5-T esters	61792-07-2			1,000			
Cobalt, ((2,2'-(1,2-ethanediylbis(nitrilomethylidyne))bis(6-fluorophenylato))(2-)-N,N',O,O')-	62207-76-5	100/10,000	100		313c		
Acifluorfen, sodium salt	62476-59-9				313		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitrobenzoic acid, sodium salt	62476-59-9				X		
Chlorotetrafluoroethane	63938-10-3				313		
2-Chloro-N-(((4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl)benzenesulfonamide	64902-72-3				X		
Chlorsulfuron	64902-72-3				313		
3,3'-Dichlorobenzidine sulfate	64969-34-2				313		
2-(4-((6-Chloro-2-benzoxazolylen)oxy)phenoxy)propanoic acid, ethyl ester	66441-23-4				X		
Fenoxaprop ethyl	66441-23-4				313		
Hydramethylnon	67485-29-4				313		
Tetrahydro-5,5-dimethyl-2(1H)-pyrimidinone(3-(4-(trifluoromethyl)phenyl)-1-(2-(4-(trifluoromethyl)phenyl)ethenyl)-2-propenylidene)hydrazone	67485-29-4				X		
1,2,3,4,6,7,8-heptachlorodibenzofuran	67562-39-4				313!		
3-(2-Chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid cyano(3-phenoxyphenyl) methyl ester	68085-85-8				X		
Cyhalothrin	68085-85-8				313		
Cyfluthrin	68359-37-5				313		
3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropanecarboxylic acid, cyano(4-fluoro-3-phenoxyphenyl)methyl ester	68359-37-5				X		
N-(2-Chloro-4-(trifluoromethyl)phenyl)-DL-valine(+)-cyano(3-phenoxyphenyl)methyl ester	69409-94-5				X		
Fluvalinate	69409-94-5				313		
Fluazifop butyl	69806-50-4				313		
2-(4-((5-(Trifluoromethyl)-2-pyridinyl)oxy)-phenoxy)propanoic acid, butyl ester	69806-50-4				X		
1,2,3,4,7,8-hexachlorodibenzofuran	70648-26-9				313!		
Abamectin	71751-41-2				313		
Avermectin B1	71751-41-2				X		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-N-methylsulfonyl)-2-nitrobenzamide	72178-02-0				X		
Fomesafen	72178-02-0				313		
Fenoxycarb	72490-01-8				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
(2-(4-Phenoxyphenoxy)ethyl carbamic acid ethyl ester	72490-01-8				X		
1,2,3,7,8,9-hexachlorodibenzofuran	72918-21-9				313!		
2-(1-(Ethoxyimino) butyl)-5-(2-(ethylthio)propyl)-3-hydroxyl-2-cyclohexen-1-one	74051-80-2				X		
Sethoxydim	74051-80-2				313		
4-Methyldiphenylmethane-3,4-diisocyanate	75790-84-0				313#		
2,4'-Diisocyanatodiphenyl sulfide	75790-87-3				313#		
2-(4-((6-Chloro-2-quinoxalinyl)oxy]phenoxy) propanoic acid ethyl ester	76578-14-8				X		
Quizalofop-ethyl	76578-14-8				313		
Benzoic acid, 5-(2-chloro-4-(trifluoromethyl)phenoxy)-2-nitro-, 2-ethoxy-1-methyl-2-oxethyl ester	77501-63-4				313		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitro-2-ethoxy-1-methyl-2-oxoethyl ester	77501-63-4				X		
Lactofen	77501-63-4				313		
Bifenthrin	82657-04-3				313		
.alpha.-Butyl-.alpha.-(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile	88671-89-0				X		
Myclobutanil	88671-89-0				313		
Dichloro-1,1,2-trifluoroethane	90454-18-5				313		
Chlorimuron ethyl	90982-32-4				313		
Ethyl-2-(((((4-chloro-6-methoxyprimidin-2-yl)amino)carbonyl)amino)sulfonyl)benzoate	90982-32-4				X		
2-(4-Methoxy-6-methyl-1,3,5-triazin-2-yl)-methylamino)carbonyl)amino)sulfonyl) benzoic acid, methyl ester	101200-48-0				X		
Tribenuron methyl	101200-48-0				313		
1,1-Dichloro-1,2,3,3,3-pentafluoropropane	111512-56-2				313		
HCFC-225eb	111512-56-2				X		
o-Dianisidine hydrochloride	111984-09-9				X		
3,3'-Dimethoxybenzidine hydrochloride	111984-09-9				313		
Dichloropentafluoropropane	127564-92-5				313		
2,2-Dichloro-1,1,1,3,3-pentafluoropropane	128903-21-9				313		
HCFC-225aa	128903-21-9				X		
Diethyldiisocyanatobenzene	134190-37-7				313#		
1,3-Dichloro-1,1,2,3,3-pentafluoropropane	136013-79-1				313		
HCFC-225ea	136013-79-1				X		

APPENDIX A

LIST OF LISTS
CONSOLIDATED LIST OF CHEMICALS (BY ALPHBETICAL NAME)
SUBJECT TO EPCRA, CERCLA AND CAA SECTION 112 (r)

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Abamectin	71751-41-2				313		
Acenaphthene	83-32-9			100			
Acenaphthylene	208-96-8			5,000			
Acephate	30560-19-1				313		
Acetaldehyde	75-07-0			1,000	313	U001	10,000
Acetaldehyde, trichloro-	75-87-6			5,000		U034	
Acetamide	60-35-5			100	313		
Acetic acid	64-19-7			5,000			
Acetic acid, (2,4-dichlorophenoxy)-	94-75-7			100	X	U240	
Acetic acid ethenyl ester	108-05-4	1,000	5,000	5,000	X		15,000
Acetic anhydride	108-24-7			5,000			
Acetone	67-64-1			5,000		U002	
Acetone cyanohydrin	75-86-5	1,000	10	10	X	P069	
Acetone thiosemicarbazide	1752-30-3	1,000/10,000	1,000				
Acetonitrile	75-05-8			5,000	313	U003	
Acetophenone	98-86-2			5,000	313	U004	
2-Acetylaminofluorene	53-96-3			1	313	U005	
Acetyl bromide	506-96-7			5,000			
Acetyl chloride	75-36-5			5,000		U006	
Acetylene	74-86-2						10,000
Acetylphosphoramidothioic acid O,S-dimethyl ester	30560-19-1				X		
1-Acetyl-2-thiourea	591-08-2			1,000		P002	
Acifluorfen, sodium salt	62476-59-9				313		
Acrolein	107-02-8	500	1	1	313	P003	5,000
Acrylamide	79-06-1	1,000/10,000	5,000	5,000	313	U007	
Acrylic acid	79-10-7			5,000	313	U008	
Acrylonitrile	107-13-1	10,000	100	100	313	U009	20,000
Acrylyl chloride	814-68-6	100	100				5,000
Adipic acid	124-04-9			5,000			
Adiponitrile	111-69-3	1,000	1,000				
Alachlor	15972-60-8				313		
Aldicarb	116-06-3	100/10,000	1	1	313	P070	
Aldicarb sulfone	1646-88-4			100		P203	
Aldrin	309-00-2	500/10,000	1	1	313	P004	
d-trans-Allethrin	28057-48-9				313		
Allyl alcohol	107-18-6	1,000	100	100	313	P005	15,000
Allylamine	107-11-9	500	500		313		10,000
Allyl chloride	107-05-1			1,000	313		
Aluminum (fume or dust)	7429-90-5				313		
Aluminum oxide (fibrous forms)	1344-28-1				313		
Aluminum phosphide	20859-73-8	500	100	100	313	P006	
Aluminum sulfate	10043-01-3			5,000			
Ametryn	834-12-8				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
2-Aminoanthraquinone	117-79-3				313		
4-Aminoazobenzene	60-09-3				313		
4-Aminobiphenyl	92-67-1			1	313		
1-Amino-2,4-dibromoanthraquinone	81-49-2				313		
1-Amino-2-methylanthraquinone	82-28-0				313		
5-(Aminomethyl)-3-isoxazolol	2763-96-4	500/10,000	1,000	1,000		P007	
Aminopterin	54-62-6	500/10,000	500				
4-Aminopyridine	504-24-5	500/10,000	1,000	1,000		P008	
Amiton	78-53-5	500	500				
Amiton oxalate	3734-97-2	100/10,000	100				
Amitraz	33089-61-1				313		
Amitrole	61-82-5			10	313	U011	
Ammonia	7664-41-7	500	100	100	313		
Ammonia (anhydrous)	7664-41-7	500	100	100	X		10,000
Ammonia (conc 20% or greater)	7664-41-7			1,000	X		20,000
Ammonium acetate	631-61-8			5,000			
Ammonium benzoate	1863-63-4			5,000			
Ammonium bicarbonate	1066-33-7			5,000			
Ammonium bichromate	7789-09-5			10	313c		
Ammonium bifluoride	1341-49-7			100			
Ammonium bisulfite	10192-30-0			5,000			
Ammonium carbamate	1111-78-0			5,000			
Ammonium carbonate	506-87-6			5,000			
Ammonium chloride	12125-02-9			5,000			
Ammonium chromate	7788-98-9			10	313c		
Ammonium citrate, dibasic	3012-65-5			5,000			
Ammonium fluoborate	13826-83-0			5,000			
Ammonium fluoride	12125-01-8			100			
Ammonium hydroxide	1336-21-6			1,000	313		
Ammonium oxalate	5972-73-6			5,000			
Ammonium oxalate	6009-70-7			5,000			
Ammonium oxalate	14258-49-2			5,000			
Ammonium picrate	131-74-8			10		P009	
Ammonium silicofluoride	16919-19-0			1,000			
Ammonium sulfamate	7773-06-0			5,000			
Ammonium sulfide	12135-76-1			100			
Ammonium sulfite	10196-04-0			5,000			
Ammonium tartrate	3164-29-2			5,000			
Ammonium tartrate	14307-43-8			5,000			
Ammonium thiocyanate	1762-95-4			5,000			
Ammonium vanadate	7803-55-6			1,000	313c	P119	
Amphetamine	300-62-9	1,000	1,000				
Amyl acetate	628-63-7			5,000			
iso-Amyl acetate	123-92-2			5,000			
sec-Amyl acetate	626-38-0			5,000			
tert-Amyl acetate	625-16-1			5,000			
Anilazine	101-05-3				313		
Aniline	62-53-3	1,000	5,000	5,000	313	U012	
Aniline, 2,4,6-trimethyl-	88-05-1	500	500				
o-Anisidine	90-04-0			100	313		
p-Anisidine	104-94-9				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
o-Anisidine hydrochloride	134-29-2				313		
Anthracene	120-12-7			5,000	313		
Antimony	7440-36-0			5,000	313		
Antimony Compounds	N010			&	313		
Antimony pentachloride	7647-01-0			1,000			
Antimony pentafluoride	7783-70-2	500	500		313c		
Antimony potassium tartrate	28300-74-5			100	313c		
Antimony tribromide	7789-61-9			1,000	313c		
Antimony trichloride	10025-91-9			1,000	313c		
Antimony trifluoride	7783-56-4			1,000	313c		
Antimony trioxide	1309-64-4			1,000	313c		
Antimycin A	1397-94-0	1,000/10,000	1,000				
ANTU	86-88-4	500/10,000	100	100		P072	
Aroclor 1016	12674-11-2			1			
Aroclor 1221	11104-28-2			1			
Aroclor 1232	11141-16-5			1			
Aroclor 1242	53469-21-9			1			
Aroclor 1248	12672-29-6			1			
Aroclor 1254	11097-69-1			1			
Aroclor 1260	11096-82-5			1			
Arsenic	7440-38-2			1	313		
Arsenic acid	7778-39-4			1	313c	P010	
Arsenic Compounds	N020			&	313		
Arsenic disulfide	1303-32-8			1	313c		
Arsenic pentoxide	1303-28-2	100/10,000	1	1	313c	P011	
Arsenic trioxide	1327-53-3	100/10,000	1	1	313c	P012	
Arsenic trisulfide	1303-33-9			1	313c		
Arsenous oxide	1327-53-3	100/10,000	1	1	313c	P012	
Arsenous trichloride	7784-34-1	500	1	1	313c		15,000
Arsine	7784-42-1	100	100				1,000
Asbestos (friable)	1332-21-4			1	313		
Atrazine	1912-24-9				313		
Auramine	492-80-8			100	X	U014	
Avermectin B1	71751-41-2				X		
Azaserine	115-02-6			1		U015	
1H-Azepine-1 carbothioic acid, hexahydro-S-ethyl ester	2212-67-1				X		
Azinphos-ethyl	2642-71-9	100/10,000	100				
Azinphos-methyl	86-50-0	10/10,000	1	1			
Aziridine	151-56-4	500	1	1	X	P054	10,000
Aziridine, 2-methyl	75-55-8	10,000	1	1	X	P067	10,000
Barban	101-27-9			10		U280	
Barium	7440-39-3				313		
Barium Compounds	N040				313		
Barium cyanide	542-62-1			10	313c	P013	
Bendiocarb	22781-23-3			100	313	U278	
Bendiocarb phenol	22961-82-6			1,000		U364	
Benezeneamine, 2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)-	1582-09-8			10	X		
Benfluralin	1861-40-1				313		
Benomyl	17804-35-2			10	313	U271	
Benz[c]acridine	225-51-4			100		U016	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Benzal chloride	98-87-3	500	5,000	5,000	313	U017	
Benzamide	55-21-0				313		
Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl	23950-58-5			5,000	X	U192	
Benz[a]anthracene	56-55-3			10	313+	U018	
Benzenamine, 3-(trifluoromethyl)-	98-16-8	500	500				
Benzene	71-43-2			10	313	U019	
Benzeneacetic acid, 4-chloro-.alpha.-(4-chlorophenyl)-.alpha.-hydroxy-, ethyl ester	510-15-6			10	X	U038	
Benzeneamine, N-hydroxy-N-nitroso, ammonium salt	135-20-6				X		
Benzenearsonic acid	98-05-5	10/10,000	10				
Benzene, 1-(chloromethyl)-4-nitro-	100-14-1	500/10,000	500				
1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-	1897-45-6				X		
Benzene, 2,4-dichloro-1-(4-nitrophenoxy)-	1836-75-5				X		
Benzene, 2,4-diisocyanato-1-methyl-	584-84-9	500	100	100	X		10,000
Benzene, 1,3-diisocyanato-2-methyl-	91-08-7	100	100	100	X		10,000
Benzene, 1,3-diisocyanatomethyl-	26471-62-5			100	X	U223	10,000
Benzene, m-dimethyl-	108-38-3			1,000	X	U239	
Benzene, o-dimethyl-	95-47-6			1,000	X	U239	
Benzene, p-dimethyl-	106-42-3			100	X	U239	
Benzeneethanamine, alpha,alpha-dimethyl-	122-09-8			5,000		P046	
Benzenemethanol, 4-chloro-.alpha.-4-chlorophenyl)-.alpha.-(trichloromethyl)-	115-32-2			10	X		
Benzenesulfonyl chloride	98-09-9			100		U020	
Benzenethiol	108-98-5	500	100	100		P014	
Benzene, 1,1'-(2,2,2-trichloroethylidene)bis [4-methoxy-	72-43-5			1	X	U247	
Benzidine	92-87-5			1	313	U021	
Benzimidazole, 4,5-dichloro-2-(trifluoromethyl)-	3615-21-2	500/10,000	500				
Benzo[b]fluoranthene	205-99-2			1	313+		
Benzo(j)fluoranthene	205-82-3				313+		
Benzo(k)fluoranthene	207-08-9			5,000	313+		
Benzoic acid	65-85-0			5,000			
Benzoic acid, 3-amino-2,5-dichloro-	133-90-4			100	X		
Benzoic acid, 5-(2-chloro-4-(trifluoromethyl)phenoxy)-2-nitro-, 2-ethoxy-1-methyl-2-oxethyl ester	77501-63-4				313		
Benzoic trichloride	98-07-7	100	10	10	313	U023	
Benzonitrile	100-47-0			5,000			
Benzo(rst)pentaphene	189-55-9			10	313+	U064	
Benzo[g,h,i]perylene	191-24-2			5,000	313		
Benzo(a)phenanthrene	218-01-9			100	313+	U050	
Benzo[a]pyrene	50-32-8			1	313+	U022	
p-Benzoquinone	106-51-4			10	X	U197	
Benzotrichloride	98-07-7	100	10	10	X	U023	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Benzoyl chloride	98-88-4			1,000	313		
Benzoyl peroxide	94-36-0				313		
Benzyl chloride	100-44-7	500	100	100	313	P028	
Benzyl cyanide	140-29-4	500	500				
Beryllium	7440-41-7			10	313	P015	
Beryllium chloride	7787-47-5			1	313c		
Beryllium Compounds	N050			&	313		
Beryllium fluoride	7787-49-7			1	313c		
Beryllium nitrate	7787-55-5			1	313c		
Beryllium nitrate	13597-99-4			1	313c		
alpha-BHC	319-84-6			10	X		
beta-BHC	319-85-7			1			
delta-BHC	319-86-8			1			
Bicyclo[2.2.1]heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)imino)-,(1-alpha,2-beta,4-alpha,5-alpha,6E))-	15271-41-7	500/10,000	500				
Bifenthrin	82657-04-3				313		
2,2'-Bioxirane	1464-53-5	500	10	10	X	U085	
Biphenyl	92-52-4			100	313		
2,2-bis(Bromomethyl)-1,3-propanediol	3296-90-0				313		
Bis(2-chloroethoxy) methane	111-91-1			1,000	313	U024	
Bis(2-chloroethyl) ether	111-44-4	10,000	10	10	313	U025	
Bis(chloromethyl) ether	542-88-1	100	10	10	313	P016	1,000
Bis(2-chloro-1-methylethyl)ether	108-60-1			1,000	313	U027	
Bis(chloromethyl) ketone	534-07-6	10/10,000	10				
Bis(2-ethylhexyl)phthalate	117-81-7			100	X	U028	
N,N'-Bis(1-methylethyl)-6-methylthio-1,3,5-triazine-2,4-diamine	7287-19-6				X		
1,4-Bis(methylisocyanate)cyclohexane	10347-54-3				313#		
1,3-Bis(methylisocyanate)cyclohexane	38661-72-2				313#		
Bis(tributyltin) oxide	56-35-9				313		
Bitoscanate	4044-65-9	500/10,000	500				
Borane, trichloro-	10294-34-5	500	500		X		5,000
Borane, trifluoro-	7637-07-2	500	500		X		5,000
Boron trichloride	10294-34-5	500	500		313		5,000
Boron trifluoride	7637-07-2	500	500		313		5,000
Boron trifluoride compound with methyl ether (1:1)	353-42-4	1,000	1,000				15,000
Boron, trifluoro[oxybis[methane]]-, (T-4)-	353-42-4	1,000	1,000				15,000
Bromacil	314-40-9				313		
Bromacil, lithium salt	53404-19-6				313		
Bromadiolone	28772-56-7	100/10,000	100				
Bromine	7726-95-6	500	500		313		10,000
Bromoacetone	598-31-2			1,000		P017	
1-Bromo-1-(bromomethyl)-1,3-propanedicarbonitrile	35691-65-7				313		
Bromochlorodifluoromethane	353-59-3				313		
O-(4-Bromo-2-chlorophenyl)-O-ethyl-	41198-08-7				X		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
S-propylphosphorothioate							
Bromoform	75-25-2			100	313	U225	
Bromomethane	74-83-9	1,000	1,000	1,000	313	U029	
5-Bromo-6-methyl-3-(1-methylpropyl)-2,4-(1H,3H)-pyrimidinedione	314-40-9				X		
4-Bromophenyl phenyl ether	101-55-3			100		U030	
Bromotrifluoroethylene	598-73-2						10,000
Bromotrifluoromethane	75-63-8				313		
Bromoxynil	1689-84-5				313		
Bromoxynil octanoate	1689-99-2				313		
Brucine	357-57-3			100	313	P018	
1,3-Butadiene	106-99-0			10	313		10,000
1,3-Butadiene, 2-methyl-	78-79-5			100			10,000
Butane	106-97-8						10,000
Butane, 2-methyl-	78-78-4						10,000
2-Butenal	4170-30-3	1,000	100	100	X	U053	20,000
2-Butenal, (e)-	123-73-9	1,000	100	100		U053	20,000
Butene	25167-67-3						10,000
1-Butene	106-98-9						10,000
2-Butene	107-01-7						10,000
2-Butene-cis	590-18-1						10,000
2-Butene, 1,4-dichloro-	764-41-0			1	X	U074	
2-Butene, (E)	624-64-6						10,000
2-Butene-trans	624-64-6						10,000
1-Buten-3-yne	689-97-4						10,000
2,4-D butoxyethyl ester	1929-73-3			100	313		
Butyl acetate	123-86-4			5,000			
iso-Butyl acetate	110-19-0			5,000			
sec-Butyl acetate	105-46-4			5,000			
tert-Butyl acetate	540-88-5			5,000			
Butyl acrylate	141-32-2				313		
n-Butyl alcohol	71-36-3			5,000	313	U031	
sec-Butyl alcohol	78-92-2				313		
tert-Butyl alcohol	75-65-0				313		
Butylamine	109-73-9			1,000			
iso-Butylamine	78-81-9			1,000			
sec-Butylamine	513-49-5			1,000			
sec-Butylamine	13952-84-6			1,000			
tert-Butylamine	75-64-9			1,000			
Butyl benzyl phthalate	85-68-7			100			
.alpha.-Butyl-.alpha.-(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile	88671-89-0				X		
1,2-Butylene oxide	106-88-7			100	313		
Butylethylcarbamothioic acid S-propyl ester	1114-71-2				X		
N-Butyl-N-ethyl-2,6-dinitro-4-(trifluoromethyl) benzenamine	1861-40-1				X		
n-Butyl phthalate	84-74-2			10	X	U069	
1-Butyne	107-00-6						10,000
Butyraldehyde	123-72-8				313		
Butyric acid	107-92-6			5,000			
iso-Butyric acid	79-31-2			5,000			

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Cacodylic acid	75-60-5			1		U136	
Cadmium	7440-43-9			10	313		
Cadmium acetate	543-90-8			10	313c		
Cadmium bromide	7789-42-6			10	313c		
Cadmium chloride	10108-64-2			10	313c		
Cadmium Compounds	N078			&	313		
Cadmium oxide	1306-19-0	100/10,000	100		313c		
Cadmium stearate	2223-93-0	1,000/10,000	1,000		313c		
Calcium arsenate	7778-44-1	500/10,000	1	1	313c		
Calcium arsenite	52740-16-6			1	313c		
Calcium carbide	75-20-7			10			
Calcium chromate	13765-19-0			10	313c	U032	
Calcium cyanamide	156-62-7			1,000	313		
Calcium cyanide	592-01-8			10	313c	P021	
Calcium dodecylbenzenesulfonate	26264-06-2			1,000			
Calcium hypochlorite	7778-54-3			10			
Camphechlor	8001-35-2	500/10,000	1	1	X	P123	
Camphene, octachloro-	8001-35-2	500/10,000	1	1	X	P123	
Cantharidin	56-25-7	100/10,000	100				
Captan	133-06-2			10	313		
Carbachol chloride	51-83-2	500/10,000	500				
Carbamic acid, diethylthio-, S-(p-chlorobenzyl)	28249-77-6				X		
Carbamic acid, ethyl ester	51-79-6			100	X	U238	
Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-	26419-73-8	100/10,000	100	100		P185	
Carbamodithioic acid, 1,2-ethanediylbis-, manganese complex	12427-38-2				X		
Carbamodithioic acid, 1,2-ethanediylbis-, zinc complex	12122-67-7				X		
Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl)ester	2303-16-4			100	X	U062	
Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester	52888-80-9			5,000		U387	
Carbaryl	63-25-2			100	313	U279	
Carbendazim	10605-21-7			10		U372	
Carbofuran	1563-66-2	10/10,000	10	10	313	P127	
Carbofuran phenol	1563-38-8			10		U367	
Carbon disulfide	75-15-0	10,000	100	100	313	P022	20,000
Carbonic difluoride	353-50-4			1,000		U033	
Carbonic dichloride	75-44-5	10	10	10	X	P095	500
Carbonochloridic acid, methylester	79-22-1	500	1,000	1,000	X	U156	5,000
Carbonochloridic acid, 1-methylethyl ester	108-23-6	1,000	1,000				15,000
Carbonochloridic acid, propylester	109-61-5	500	500				15,000
Carbon oxide sulfide (COS)	463-58-1			100	X		10,000
Carbon tetrachloride	56-23-5			10	313	U211	
Carbonyl sulfide	463-58-1			100	313		10,000
Carbophenothion	786-19-6	500	500				
Carbosulfan	55285-14-8			1,000		P189	

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Carboxin	5234-68-4				313		
Catechol	120-80-9			100	313		
CFC-11	75-69-4			5,000	X	U121	
CFC-12	75-71-8			5,000	X	U075	
CFC-114	76-14-2				X		
CFC-115	76-15-3				X		
CFC-13	75-72-9				X		
Chinomethionat	2439-01-2				313		
Chloramben	133-90-4			100	313		
Chlorambucil	305-03-3			10		U035	
Chlordane	57-74-9	1,000	1	1	313	U036	
Chlordane (Technical Mixture and Metabolites)	N.A.			&			
Chlorendic acid	115-28-6				313		
Chlorfenvinfos	470-90-6	500	500				
Chlorimuron ethyl	90982-32-4				313		
Chlorinated Benzenes	N.A.			&			
Chlorinated Ethanes	N.A.			&			
Chlorinated Naphthalene	N.A.			&			
Chlorinated Phenols	N084			&	313		
Chlorine	7782-50-5	100	10	10	313		2,500
Chlorine dioxide	10049-04-4				313		1,000
Chlorine monoxide	7791-21-1						10,000
Chlorine oxide	7791-21-1						10,000
Chlorine oxide (ClO2)	10049-04-4				X		1,000
Chlormephos	24934-91-6	500	500				
Chlormequat chloride	999-81-5	100/10,000	100				
Chlornaphazine	494-03-1			100		U026	
Chloroacetaldehyde	107-20-0			1,000		P023	
Chloroacetic acid	79-11-8	100/10,000	100	100	313		
2-Chloroacetophenone	532-27-4			100	313		
Chloroalkyl Ethers	N.A.			&			
1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	4080-31-3				313		
p-Chloroaniline	106-47-8			1,000	313	P024	
Chlorobenzene	108-90-7			100	313	U037	
Chlorobenzilate	510-15-6			10	313	U038	
2-(4-((6-Chloro-2-benzoxazolylen)oxy)phenoxy)propanoic acid, ethyl ester	66441-23-4				X		
2-Chloro-N-(2-chloroethyl)-N-methylethanamine	51-75-2	10	10		X		
p-Chloro-m-cresol	59-50-7			5,000		U039	
2,4-D chlorocrotyl ester	2971-38-2			100	313		
Chlorodibromomethane	124-48-1			100			
1-Chloro-1,1-difluoroethane	75-68-3				313		
Chlorodifluoromethane	75-45-6				313		
5-Chloro-3-(1,1-dimethylethyl)-6-methyl-2,4(1H,3H)-pyrimidinedione	5902-51-2				X		
Chloroethane	75-00-3			100	313		10,000
Chloroethanol	107-07-3	500	500				
Chloroethyl chloroformate	627-11-2	1,000	1,000				

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6-Chloro-N-ethyl-N'-(1-methylethyl)-1,3,5-triazine-2,4-diamine	1912-24-9				X		
2-Chloroethyl vinyl ether	110-75-8			1,000		U042	
Chloroform	67-66-3	10,000	10	10	313	U044	20,000
Chloromethane	74-87-3			100	313	U045	10,000
2-Chloro-N-(((4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl)benzenesulfonamide	64902-72-3				X		
4-Chloro-5-(methylamino)-2-[3-(trifluoromethyl)phenyl]-3(2H)-pyridazinone	27314-13-2				X		
Chloromethyl ether	542-88-1	100	10	10	X	P016	1,000
4-Chloro-alpha-(1-methylethyl)benzeneacetic acid cyano(3-phenoxyphenyl)methyl ester	51630-58-1				X		
2-Chloro-N-(1-methylethyl)-N-phenylacetamide	1918-16-7				X		
Chloromethyl methyl ether	107-30-2	100	10	10	313	U046	5,000
(4-Chloro-2-methylphenoxy) acetate sodium salt	3653-48-3				X		
(4-Chloro-2-methylphenoxy) acetic acid	94-74-6				X		
3-Chloro-2-methyl-1-propene	563-47-3				313		
2-Chloronaphthalene	91-58-7			5,000		U047	
Chlorophacinone	3691-35-8	100/10,000	100				
2-Chlorophenol	95-57-8			100		U048	
Chlorophenols	N084			&	313		
1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone	43121-43-3				X		
.alpha.-(2-Chlorophenyl)-.alpha.-4-chlorophenyl)-5-pyrimidinemethanol	60168-88-9				X		
p-Chlorophenyl isocyanate	104-12-1				313		
4-Chlorophenyl phenyl ether	7005-72-3			5,000			
Chloropicrin	76-06-2				313		
Chloroprene	126-99-8			100	313		
3-Chloropropionitrile	542-76-7	1,000	1,000	1,000	313	P027	
2-Chloropropylene	557-98-2						10,000
1-Chloropropylene	590-21-6						10,000
2-(4-((6-Chloro-2-quinoxalinyl)oxy]phenoxy) propanoic acid ethyl ester	76578-14-8				X		
Chlorosulfonic acid	7790-94-5			1,000			
Chlorotetrafluoroethane	63938-10-3				313		
1-Chloro-1,1,2,2-tetrafluoroethane	354-25-6				313		
2-Chloro-1,1,1,2-tetrafluoroethane	2837-89-0				313		
Chlorothalonil	1897-45-6				313		
p-Chloro-o-toluidine	95-69-2				313		
4-Chloro-o-toluidine, hydrochloride	3165-93-3			100		U049	
2-Chloro-6-(trichloromethyl)pyridine	1929-82-4				X		
2-Chloro-1,1,1-trifluoroethane	75-88-7				313		
Chlorotrifluoromethane	75-72-9				313		

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5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitrobenzoic acid, sodium salt	62476-59-9				X		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-N-methylsulfonyl)-2-nitrobenzamide	72178-02-0				X		
5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitro-2-ethoxy-1-methyl-2-oxoethyl ester	77501-63-4				X		
N-(2-Chloro-4-(trifluoromethyl)phenyl)-DL-valine(+)-cyano(3-phenoxyphenyl)methyl ester	69409-94-5				X		
3-Chloro-1,1,1-trifluoropropane	460-35-5				313		
3-(2-Chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid cyano(3-phenoxyphenyl) methyl ester	68085-85-8				X		
Chloroxuron	1982-47-4	500/10,000	500				
Chlorpyrifos	2921-88-2			1			
Chlorpyrifos methyl	5598-13-0				313		
Chlorsulfuron	64902-72-3				313		
Chlorthiophos	21923-23-9	500	500				
Chromic acetate	1066-30-4			1,000	313c		
Chromic acid	7738-94-5			10	313c		
Chromic acid	11115-74-5			10	313c		
Chromic chloride	10025-73-7	1/10,000	1		313c		
Chromic sulfate	10101-53-8			1,000	313c		
Chromium	7440-47-3			5,000	313		
Chromium Compounds	N090			&	313		
Chromous chloride	10049-05-5			1,000	313c		
d-trans-Chrysanthemic acid of d-allethrone	28057-48-9				X		
Chrysene	218-01-9			100	X	U050	
C.I. Acid Green 3	4680-78-8				313		
C.I. Acid Red 114	6459-94-5				313		
C.I. Basic Green 4	569-64-2				313		
C.I. Basic Red 1	989-38-8				313		
C.I. Direct Black 38	1937-37-7				313		
C.I. Direct Blue 218	28407-37-6				313		
C.I. Direct Blue 6	2602-46-2				313		
C.I. Direct Brown 95	16071-86-6				313		
C.I. Disperse Yellow 3	2832-40-8				313		
C.I. Food Red 5	3761-53-3				313		
C.I. Food Red 15	81-88-9				313		
C.I. Solvent Orange 7	3118-97-6				313		
C.I. Solvent Yellow 3	97-56-3				313		
C.I. Solvent Yellow 14	842-07-9				313		
C.I. Solvent Yellow 34	492-80-8			100	313	U014	
C.I. Vat Yellow 4	128-66-5				313		
Cobalt	7440-48-4				313		
Cobalt carbonyl	10210-68-1	10/10,000	10		313c		
Cobalt Compounds	N096			&	313		

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Cobalt, ((2,2'-(1,2-ethanediylbis(nitrilomethylidyne))bis(6-fluorophenylato))(2-)-N,N',O,O')-	62207-76-5	100/10,000	100		313c		
Cobaltous bromide	7789-43-7			1,000	313c		
Cobaltous formate	544-18-3			1,000	313c		
Cobaltous sulfamate	14017-41-5			1,000	313c		
Coke Oven Emissions	N.A.			1			
Colchicine	64-86-8	10/10,000	10				
Copper	7440-50-8			5,000	313		
Copper Compounds	N100			&	313		
Copper cyanide	544-92-3			10	313c	P029	
Coumaphos	56-72-4	100/10,000	10	10			
Coumatetralyl	5836-29-3	500/10,000	500				
Creosote	N.A.			1		U051	
Creosote	8001-58-9				313		
p-Cresidine	120-71-8				313		
m-Cresol	108-39-4			100	313	U052	
o-Cresol	95-48-7	1,000/10,000	100	100	313	U052	
p-Cresol	106-44-5			100	313	U052	
Cresol (mixed isomers)	1319-77-3			100	313	U052	
Crimidine	535-89-7	100/10,000	100				
Crotonaldehyde	4170-30-3	1,000	100	100	313	U053	20,000
Crotonaldehyde, (E)-	123-73-9	1,000	100	100		U053	20,000
Cumene	98-82-8			5,000	313	U055	
Cumene hydroperoxide	80-15-9			10	313	U096	
Cupferron	135-20-6				313		
Cupric acetate	142-71-2			100	313c		
Cupric acetoarsenite	12002-03-8	500/10,000	1	1	313c		
Cupric chloride	7447-39-4			10	313c		
Cupric nitrate	3251-23-8			100	313c		
Cupric oxalate	5893-66-3			100	313c		
Cupric sulfate	7758-98-7			10	313c		
Cupric sulfate, ammoniated	10380-29-7			100	313c		
Cupric tartrate	815-82-7			100	313c		
Cyanazine	21725-46-2				313		
Cyanide Compounds	N106			&	313		
Cyanides (soluble salts and complexes), not otherwise specified	N.A.			10	313c	P030	
Cyanogen	460-19-5			100		P031	10,000
Cyanogen bromide	506-68-3	500/10,000	1,000	1,000	313c	U246	
Cyanogen chloride	506-77-4			10	313c	P033	10,000
Cyanogen iodide	506-78-5	1,000/10,000	1,000		313c		
Cyanophos	2636-26-2	1,000	1,000				
Cyanuric fluoride	675-14-9	100	100		313c		
Cycloate	1134-23-2				313		
2,5-Cyclohexadiene-1,4-dione, 2,3,5-tris(1-aziridinyl)-	68-76-8				X		
Cyclohexanamine	108-91-8	10,000	10,000				15,000
Cyclohexane	110-82-7			1,000	313	U056	
1,4-Cyclohexane diisocyanate	2556-36-7				313#		
Cyclohexane, 1,2,3,4,5,6-hexachloro-,(1.alpha.,2.alpha.,3.beta.,4.alpha.,5.a	58-89-9	1,000/10,000	1	1	X	U129	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
lpha.,6.beta.)-							
Cyclohexanol	108-93-0				313		
Cyclohexanone	108-94-1			5,000		U057	
Cycloheximide	66-81-9	100/10,000	100				
Cyclohexylamine	108-91-8	10,000	10,000				15,000
2-Cyclohexyl-4,6-dinitrophenol	131-89-5			100		P034	
Cyclophosphamide	50-18-0			10		U058	
Cyclopropane	75-19-4						10,000
Cyfluthrin	68359-37-5				313		
Cyhalothrin	68085-85-8				313		
2,4-D	94-75-7			100	313	U240	
2,4-D Acid	94-75-7			100	X	U240	
2,4-D butyl ester	94-80-4			100	313		
2,4-D Esters	94-11-1			100	X		
2,4-D Esters	94-79-1			100			
2,4-D Esters	94-80-4			100	X		
2,4-D Esters	1320-18-9			100	X		
2,4-D Esters	1928-38-7			100			
2,4-D Esters	1928-61-6			100			
2,4-D Esters	1929-73-3			100	X		
2,4-D Esters	2971-38-2			100	X		
2,4-D Esters	25168-26-7			100			
2,4-D Esters	53467-11-1			100			
2,4-D isopropyl ester	94-11-1			100	313		
2,4-D propylene glycol butyl ether ester	1320-18-9			100	313		
2,4-D, salts and esters	94-75-7			100		U240	
Daunomycin	20830-81-3			10		U059	
Dazomet	533-74-4				313		
Dazomet, sodium salt	53404-60-7				313		
2,4-DB	94-82-6				313		
DBCP	96-12-8			1	X	U066	
DDD	72-54-8			1		U060	
DDE	72-55-9			1			
DDE	3547-04-4			5,000			
DDT	50-29-3			1		U061	
DDT and Metabolites	N.A.			&			
Decaborane(14)	17702-41-9	500/10,000	500				
Decabromodiphenyl oxide	1163-19-5				313		
DEF	78-48-8				X		
DEHP	117-81-7			100	X	U028	
Demeton	8065-48-3	500	500				
Demeton-S-methyl	919-86-8	500	500				
Desmedipham	13684-56-5				313		
2,4-D 2-ethylhexyl ester	1928-43-4				313		
2,4-D 2-ethyl-4-methylpentyl ester	53404-37-8				313		
Dialifor	10311-84-9	100/10,000	100				
Diallate	2303-16-4			100	313	U062	
2,4-Diaminoanisole	615-05-4				313		
2,4-Diaminoanisole sulfate	39156-41-7				313		
4,4'-Diaminodiphenyl ether	101-80-4				313		
Diaminotoluene	496-72-0			10		U221	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Diaminotoluene	823-40-5			10		U221	
2,4-Diaminotoluene	95-80-7			10	313		
Diaminotoluene (mixed isomers)	25376-45-8			10	313	U221	
o-Dianisidine dihydrochloride	20325-40-0				X		
o-Dianisidine hydrochloride	111984-09-9				X		
Diazinon	333-41-5			1	313		
Diazomethane	334-88-3			100	313		
Dibenz(a,h)acridine	226-36-8				313+		
Dibenz(a,j)acridine	224-42-0				313+		
Dibenz[a,h]anthracene	53-70-3			1	313+	U063	
7H-Dibenzo(c,g)carbazole	194-59-2				313+		
Dibenzo(a,e)fluoranthene	5385-75-1				313+		
Dibenzofuran	132-64-9			100	313		
Dibenzo(a,e)pyrene	192-65-4				313+		
Dibenzo(a,h)pyrene	189-64-0				313+		
Dibenzo(a,l)pyrene	191-30-0				313+		
Dibenz[a,i]pyrene	189-55-9			10	X	U064	
Diborane	19287-45-7	100	100				2,500
Diborane(6)	19287-45-7	100	100				2,500
1,2-Dibromo-3-chloropropane	96-12-8			1	313	U066	
1,2-Dibromoethane	106-93-4			1	313	U067	
3,5-Dibromo-4-hydroxybenzonitrile	1689-84-5				X		
2,2-Dibromo-3-nitrilopropionamide	10222-01-2				313s		
Dibromotetrafluoroethane	124-73-2				313		
Dibutyl phthalate	84-74-2			10	313	U069	
Dicamba	1918-00-9			1,000	313		
Dichlobenil	1194-65-6			100			
Dichlone	117-80-6			1			
Dichloran	99-30-9				313		
o-Dichlorobenzene	95-50-1			100	X	U070	
Dichlorobenzene	25321-22-6			100	X		
1,2-Dichlorobenzene	95-50-1			100	313	U070	
1,3-Dichlorobenzene	541-73-1			100	313	U071	
1,4-Dichlorobenzene	106-46-7			100	313	U072	
Dichlorobenzene (mixed isomers)	25321-22-6			100	313		
Dichlorobenzidine	N.A.			&			
3,3'-Dichlorobenzidine	91-94-1			1	313	U073	
3,3'-Dichlorobenzidine dihydrochloride	612-83-9				313		
3,3'-Dichlorobenzidine sulfate	64969-34-2				313		
Dichlorobromomethane	75-27-4			5,000	313		
trans-1,4-Dichloro-2-butene	110-57-6	500	500		313		
trans-1,4-Dichlorobutene	110-57-6	500	500		X		
1,4-Dichloro-2-butene	764-41-0			1	313	U074	
4,6-Dichloro-N-(2-chlorophenyl)-1,3,5-triazin-2-amine	101-05-3				X		
1,2-Dichloro-1,1-difluoroethane	1649-08-7				313		
Dichlorodifluoromethane	75-71-8			5,000	313	U075	
1,1-Dichloroethane	75-34-3			1,000	X	U076	
1,2-Dichloroethane	107-06-2			100	313	U077	
3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropane carboxylic acid, (3-phenoxy-phenyl)methyl ester	52645-53-1				X		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropanecarboxylic acid, cyano(4-fluoro-3-phenoxyphenyl)methyl ester	68359-37-5				X		
1,1-Dichloroethylene	75-35-4			100	X	U078	10,000
1,2-Dichloroethylene	156-60-5			1,000		U079	
1,2-Dichloroethylene	540-59-0				313		
Dichloroethyl ether	111-44-4	10,000	10	10	X	U025	
1,1-Dichloro-1-fluoroethane	1717-00-6				313		
Dichlorofluoromethane	75-43-4				313		
Dichloroisopropyl ether	108-60-1			1,000	X	U027	
Dichloromethane	75-09-2			1,000	313	U080	
3,6-Dichloro-2-methoxybenzoic acid	1918-00-9			1,000	X		
3,6-Dichloro-2-methoxybenzoic acid, sodium salt	1982-69-0				X		
Dichloromethyl ether	542-88-1	100	10	10	X	P016	1,000
3-(2,4-Dichloro-5-(1-methylethoxy)phenyl)-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-one	19666-30-9				X		
Dichloromethylphenylsilane	149-74-6	1,000	1,000				
2,6-Dichloro-4-nitroaniline	99-30-9				X		
Dichloropentafluoropropane	127564-92-5				313		
2,2-Dichloro-1,1,1,3,3-pentafluoropropane	128903-21-9				313		
2,3-Dichloro-1,1,1,2,3-pentafluoropropane	422-48-0				313		
1,2-Dichloro-1,1,2,3,3-pentafluoropropane	422-44-6				313		
3,3-Dichloro-1,1,1,2,2-pentafluoropropane	422-56-0				313		
1,3-Dichloro-1,1,2,2,3-pentafluoropropane	507-55-1				313		
1,1-Dichloro-1,2,2,3,3-pentafluoropropane	13474-88-9				313		
1,2-Dichloro-1,1,3,3,3-pentafluoropropane	431-86-7				313		
1,3-Dichloro-1,1,2,3,3-pentafluoropropane	136013-79-1				313		
1,1-Dichloro-1,2,3,3,3-pentafluoropropane	111512-56-2				313		
Dichlorophene	97-23-4				313		
2,6-Dichlorophenol	87-65-0			100		U082	
2,4-Dichlorophenol	120-83-2			100	313	U081	
2-(4-(2,4-Dichlorophenoxy)phenoxy)propanoic acid, methyl ester	51338-27-3				X		
Dichlorophenylarsine	696-28-6	500	1	1		P036	
3-(3,5-Dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione	50471-44-8				X		
2-(3,4-Dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3,5-dione	20354-26-1				X		
N-(3,4-Dichlorophenyl)propanamide	709-98-8				X		

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1-(2-(2,4-Dichlorophenyl)-2-(2-propenyloxy)ethyl)-1H-imidazole	35554-44-0				X		
1-(2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)-methyl-1H-1,2,4,-triazole	60207-90-1				X		
Dichloropropane	26638-19-7			1,000			
Dichloropropane - Dichloropropene (mixture)	8003-19-8			100			
1,1-Dichloropropane	78-99-9			1,000			
1,2-Dichloropropane	78-87-5			1,000	313	U083	
1,3-Dichloropropane	142-28-9			1,000			
Dichloropropene	26952-23-8			100			
1,3-Dichloropropene	542-75-6			100	X	U084	
trans-1,3-Dichloropropene	10061-02-6				313		
2,3-Dichloropropene	78-88-6			100	313		
2,2-Dichloropropionic acid	75-99-0			5,000			
1,3-Dichloropropylene	542-75-6			100	313	U084	
Dichlorosilane	4109-96-0						10,000
Dichlorotetrafluoroethane	76-14-2				313		
Dichlorotrifluoroethane	34077-87-7				313		
Dichloro-1,1,2-trifluoroethane	90454-18-5				313		
1,1-Dichloro-1,2,2-trifluoroethane	812-04-4				313		
1,2-Dichloro-1,1,2-trifluoroethane	354-23-4				313		
2,2-Dichloro-1,1,1-trifluoroethane	306-83-2				313		
Dichlorvos	62-73-7	1,000	10	10	313		
Diclofop methyl	51338-27-3				313		
Dicofol	115-32-2			10	313		
Dicrotophos	141-66-2	100	100				
Dicyclopentadiene	77-73-6				313		
Dieldrin	60-57-1			1		P037	
Diepoxybutane	1464-53-5	500	10	10	313	U085	
Diethanolamine	111-42-2			100	313		
Diethatyl ethyl	38727-55-8				313		
Diethylamine	109-89-7			100			
O-(2-(Diethylamino)-6-methyl-4-pyrimidinyl)-O,O-dimethyl phosphorothioate	29232-93-7				X		
N,N-Diethylaniline	91-66-7			1,000			
Diethylarsine	692-42-2			1		P038	
Diethyl chlorophosphate	814-49-3	500	500				
Diethyldiisocyanatobenzene	134190-37-7				313#		
Di(2-ethylhexyl) phthalate	117-81-7			100	313	U028	
O,O-Diethyl S-methyl dithiophosphate	3288-58-2			5,000		U087	
Diethyl-p-nitrophenyl phosphate	311-45-5			100		P041	
Diethyl phthalate	84-66-2			1,000		U088	
O,O-Diethyl O-pyrazinyl phosphorothioate	297-97-2	500	100	100		P040	
Diethylstilbestrol	56-53-1			1		U089	
Diethyl sulfate	64-67-5			10	313		
Diflubenzuron	35367-38-5				313		
Difluoroethane	75-37-6						10,000
Digitoxin	71-63-6	100/10,000	100				

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Diglycidyl ether	2238-07-5	1,000	1,000				
Diglycidyl resorcinol ether	101-90-6				313		
Digoxin	20830-75-5	10/10,000	10				
2,3,-Dihydro-5,6-dimethyl-1,4-dithiin 1,1,4,4-tetraoxide	55290-64-7				X		
5,6-Dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide	5234-68-4				X		
Dihydrosafrole	94-58-6			10	313	U090	
Diisocyanates (includes only 20 chemicals)	N120				313		
4,4'-Diisocyanatodiphenyl ether	4128-73-8				313#		
2,4'-Diisocyanatodiphenyl sulfide	75790-87-3				313#		
Diisopropylfluorophosphate	55-91-4	100	100	100		P043	
Dimefox	115-26-4	500	500				
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-(1.alpha.,4.alpha.,4a.beta.,5.alpha.,8.alpha.,8a.beta.)-	309-00-2	500/10,000	1	1	X	P004	
Dimethipin	55290-64-7				313		
Dimethoate	60-51-5	500/10,000	10	10	313	P044	
3,3'-Dimethoxybenzidine	119-90-4			100	313	U091	
3,3'-Dimethoxybenzidine dihydrochloride	20325-40-0				313		
3,3'-Dimethoxybenzidine-4,4'-diisocyanate	91-93-0				313#		
3,3'-Dimethoxybenzidine hydrochloride	111984-09-9				313		
Dimethylamine	124-40-3			1,000	313	U092	10,000
Dimethylamine dicamba	2300-66-5				313		
4-Dimethylaminoazobenzene	60-11-7			10	313	U093	
Dimethylaminoazobenzene	60-11-7			10	X	U093	
N,N-Dimethylaniline	121-69-7			100	313		
7,12-Dimethylbenz[a]anthracene	57-97-6			1	313+	U094	
3,3'-Dimethylbenzidine	119-93-7			10	313	U095	
3,3'-Dimethylbenzidine dihydrochloride	612-82-8				313		
3,3'-Dimethylbenzidine dihydrofluoride	41766-75-0				313		
2,2-Dimethyl-1,3-benzodioxol-4-ol methylcarbamate	22781-23-3			100	X	U278	
Dimethylcarbamyl chloride	79-44-7			1	313	U097	
Dimethyl chlorothiophosphate	2524-03-0	500	500		313		
Dimethyldichlorosilane	75-78-5	500	500				5,000
3,3'-Dimethyl-4,4'-diphenylene diisocyanate	91-97-4				313#		
3,3'-Dimethyldiphenylmethane-4,4'-diisocyanate	139-25-3				313#		
N-(5-(1,1-Dimethylethyl)-1,3,4-thiadiazol-2-yl)-N,N'-dimethylurea	34014-18-1				X		
Dimethylformamide	68-12-2			100	X		
N,N-Dimethylformamide	68-12-2			100	313		
1,1-Dimethyl hydrazine	57-14-7	1,000	10	10	313	U098	15,000

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Dimethylhydrazine	57-14-7	1,000	10	10	X	U098	15,000
O,O-Dimethyl O-(3-methyl-4-(methylthio) phenyl) ester, phosphorothioic acid	55-38-9				X		
2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl ester	7696-12-0				X		
2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (3-phenoxyphenyl)methyl ester	26002-80-2				X		
2,4-Dimethylphenol	105-67-9			100	313	U101	
Dimethyl-p-phenylenediamine	99-98-9	10/10,000	10				
Dimethyl phosphorochloridothioate	2524-03-0	500	500		X		
Dimethyl phthalate	131-11-3			5,000	313	U102	
2,2-Dimethylpropane	463-82-1						10,000
Dimethyl sulfate	77-78-1	500	100	100	313	U103	
O,O-Dimethyl-O-(3,5,6-trichloro-2-pyridyl)phosphorothioate	5598-13-0				X		
Dimetilan	644-64-4	500/10,000	1	1		P191	
Dinitrobenzene (mixed isomers)	25154-54-5			100			
m-Dinitrobenzene	99-65-0			100	313		
o-Dinitrobenzene	528-29-0			100	313		
p-Dinitrobenzene	100-25-4			100	313		
Dinitrobutyl phenol	88-85-7	100/10,000	1,000	1,000	313	P020	
4,6-Dinitro-o-cresol	534-52-1	10/10,000	10	10	313	P047	
Dinitrocresol	534-52-1	10/10,000	10	10	X	P047	
4,6-Dinitro-o-cresol and salts	534-52-1			10		P047	
Dinitrophenol	25550-58-7			10			
2,4-Dinitrophenol	51-28-5			10	313	P048	
2,5-Dinitrophenol	329-71-5			10			
2,6-Dinitrophenol	573-56-8			10			
1,6-Dinitropyrene	42397-64-8				313+		
1,8-Dinitropyrene	42397-65-9				313+		
Dinitrotoluene (mixed isomers)	25321-14-6			10	313		
2,4-Dinitrotoluene	121-14-2			10	313	U105	
2,6-Dinitrotoluene	606-20-2			100	313	U106	
3,4-Dinitrotoluene	610-39-9			10			
Dinocap	39300-45-3				313		
Dinoseb	88-85-7	100/10,000	1,000	1,000	X	P020	
Dinoterb	1420-07-1	500/10,000	500				
Di-n-octyl phthalate	117-84-0			5,000		U107	
n-Dioctylphthalate	117-84-0			5,000		U107	
1,4-Dioxane	123-91-1			100	313	U108	
Dioxathion	78-34-2	500	500				
Dioxin and dioxin-like compounds (includes only 17 chemicals)	N150				313		
Diphacinone	82-66-6	10/10,000	10				
Diphenamid	957-51-7				313		
Diphenylamine	122-39-4				313		
1,2-Diphenylhydrazine	122-66-7			10	313	U109	
Diphenylhydrazine	N.A.			&			

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Diphosphoramide, octamethyl-	152-16-9	100	100	100		P085	
Dipotassium endothall	2164-07-0				313		
Dipropylamine	142-84-7			5,000		U110	
4-(Dipropylamino)-3,5-dinitrobenzenesulfonamide	19044-88-3				X		
Dipropyl isocinchomeronate	136-45-8				313		
Di-n-propylnitrosamine	621-64-7			10	X	U111	
Diquat	85-00-7			1,000			
Diquat	2764-72-9			1,000			
Disodium cyanodithioimidocarbonate	138-93-2				313		
Disulfoton	298-04-4	500	1	1		P039	
Dithiazanine iodide	514-73-8	500/10,000	500				
Dithiobiuret	541-53-7	100/10,000	100	100	X	P049	
2,4-Dithiobiuret	541-53-7	100/10,000	100	100	313	P049	
Diuron	330-54-1			100	313		
Dodecylbenzenesulfonic acid	27176-87-0			1,000			
Dodecylguanidine monoacetate	2439-10-3				X		
Dodine	2439-10-3				313		
2,4-DP	120-36-5				313		
2,4-D sodium salt	2702-72-9				313		
Emetine, dihydrochloride	316-42-7	1/10,000	1				
Endosulfan	115-29-7	10/10,000	1	1		P050	
alpha - Endosulfan	959-98-8			1			
beta - Endosulfan	33213-65-9			1			
Endosulfan and Metabolites	N.A.			&			
Endosulfan sulfate	1031-07-8			1			
Endothall	145-73-3			1,000		P088	
Endothion	2778-04-3	500/10,000	500				
Endrin	72-20-8	500/10,000	1	1		P051	
Endrin aldehyde	7421-93-4			1			
Endrin and Metabolites	N.A.			&			
Epichlorohydrin	106-89-8	1,000	100	100	313	U041	20,000
Epinephrine	51-43-4			1,000		P042	
EPN	2104-64-5	100/10,000	100				
EPTC	759-94-4				X		
Ergocalciferol	50-14-6	1,000/10,000	1,000				
Ergotamine tartrate	379-79-3	500/10,000	500				
Ethanamine	75-04-7			100			10,000
Ethane	74-84-0						10,000
Ethane, chloro-	75-00-3			100	X		10,000
1,2-Ethanediamine	107-15-3	10,000	5,000	5,000			20,000
Ethane, 1,1-difluoro-	75-37-6						10,000
Ethanedinitrile	460-19-5			100		P031	10,000
Ethane, 1,1'-oxybis-	60-29-7			100		U117	10,000
Ethaneperoxoic acid	79-21-0	500	500		X		10,000
Ethanesulfonyl chloride, 2-chloro-	1622-32-8	500	500				
Ethane, 1,1,1,2-tetrachloro-	630-20-6			100	X	U208	
Ethane, 1,1'-thiobis[2-chloro-	505-60-2	500	500		X		
Ethanethiol	75-08-1						10,000
Ethane, 1,1,2-trichloro-1,2,2,-trifluoro-	76-13-1				X		
Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-,	30558-43-1			5,000		U394	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
methyl ester							
Ethanimidothioic acid, N-[[methylamino)carbonyl]	16752-77-5	500/10,000	100	100		P066	
Ethanol, 1,2-dichloro-, acetate	10140-87-1	1,000	1,000				
Ethanol, 2-ethoxy-	110-80-5			1,000	X	U359	
Ethanol, 2,2'-oxybis-, dicarbamate	5952-26-1			5,000		U395	
Ethene	74-85-1				X		10,000
Ethene, bromotrifluoro-	598-73-2						10,000
Ethene, chloro-	75-01-4			1	X	U043	10,000
Ethene, chlorotrifluoro-	79-38-9						10,000
Ethene, 1,1-dichloro-	75-35-4			100	X	U078	10,000
Ethene, 1,1-difluoro-	75-38-7						10,000
Ethene, ethoxy-	109-92-2						10,000
Ethene, fluoro-	75-02-5						10,000
Ethene, methoxy-	107-25-5						10,000
Ethene, tetrafluoro-	116-14-3						10,000
Ethion	563-12-2	1,000	10	10			
Ethoprop	13194-48-4	1,000	1,000		313		
Ethoprophos	13194-48-4	1,000	1,000		X		
2-Ethoxyethanol	110-80-5			1,000	313	U359	
2-(1-(Ethoxyimino) butyl)-5-(2-(ethylthio)propyl)-3-hydroxyl-2-cyclohexen-1-one	74051-80-2				X		
2-((Ethoxyl((1-methylethyl)amino]phosphinothioyl]oxy) benzoic acid 1-methylethyl ester	25311-71-1				X		
Ethyl acetate	141-78-6			5,000		U112	
Ethyl acetylene	107-00-6						10,000
Ethyl acrylate	140-88-5			1,000	313	U113	
3-((Ethylamino)methoxyphosphinothioyl)oxy)-2-butenoic acid, 1-methylethyl ester	31218-83-4				X		
Ethylbenzene	100-41-4			1,000	313		
Ethylbis(2-chloroethyl)amine	538-07-8	500	500				
Ethyl carbamate	51-79-6			100	X	U238	
Ethyl chloride	75-00-3			100	X		10,000
Ethyl chloroformate	541-41-3				313		
Ethyl-2-(((((4-chloro-6-methoxyprimidin-2-yl)amino)carbonyl)amino)sulfonyl)benzoate	90982-32-4				X		
Ethyl cyanide	107-12-0	500	10	10		P101	10,000
Ethyl dipropylthiocarbamate	759-94-4				313		
Ethylene	74-85-1				313		10,000
Ethylenebisdithiocarbamic acid, salts and esters	N171				313		
Ethylenebisdithiocarbamic acid, salts & esters	111-54-6			5,000	X	U114	
Ethylenediamine	107-15-3	10,000	5,000	5,000			20,000
Ethylenediamine-tetraacetic acid (EDTA)	60-00-4			5,000			

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Ethylene dibromide	106-93-4			1	X	U067	
Ethylene dichloride	107-06-2			100	X	U077	
Ethylene fluorohydrin	371-62-0	10	10				
Ethylene glycol	107-21-1			5,000	313		
Ethyleneimine	151-56-4	500	1	1	313	P054	10,000
Ethylene oxide	75-21-8	1,000	10	10	313	U115	10,000
Ethylene thiourea	96-45-7			10	313	U116	
Ethyl ether	60-29-7			100		U117	10,000
Ethylidene Dichloride	75-34-3			1,000	313	U076	
Ethyl mercaptan	75-08-1						10,000
Ethyl methacrylate	97-63-2			1,000		U118	
Ethyl methanesulfonate	62-50-0			1		U119	
N-Ethyl-N'-(1-methylethyl)-6-(methylthio)-1,3,5,-triazine-2,4-diamine	834-12-8				X		
O-Ethyl O-(4-(methylthio)phenyl)phosphorodithioic acid S-propyl ester	35400-43-2				X		
Ethyl nitrite	109-95-5						10,000
N-(1-Ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine	40487-42-1				X		
S-(2-(Ethylsulfinyl)ethyl) O,O-dimethyl ester phosphorothioic acid	301-12-2				X		
Ethylthiocyanate	542-90-5	10,000	10,000				
Ethyne	74-86-2						10,000
Famphur	52-85-7			1,000	313	P097	
Fenamiphos	22224-92-6	10/10,000	10				
Fenarimol	60168-88-9				313		
Fenbutatin oxide	13356-08-6				313		
Fenoxaprop ethyl	66441-23-4				313		
Fenoxycarb	72490-01-8				313		
Fenpropathrin	39515-41-8				313		
Fensulfothion	115-90-2	500	500				
Fenthion	55-38-9				313		
Fenvalerate	51630-58-1				313		
Ferbam	14484-64-1				313		
Ferric ammonium citrate	1185-57-5			1,000			
Ferric ammonium oxalate	2944-67-4			1,000			
Ferric ammonium oxalate	55488-87-4			1,000			
Ferric chloride	7705-08-0			1,000			
Ferric fluoride	7783-50-8			100			
Ferric nitrate	10421-48-4			1,000			
Ferric sulfate	10028-22-5			1,000			
Ferrous ammonium sulfate	10045-89-3			1,000			
Ferrous chloride	7758-94-3			100			
Ferrous sulfate	7720-78-7			1,000			
Ferrous sulfate	7782-63-0			1,000			
Fine mineral fibers	N.A.			&			
Fluazifop butyl	69806-50-4				313		
Fluenetil	4301-50-2	100/10,000	100				
Fluometuron	2164-17-2				313		
Fluoranthene	206-44-0			100	X	U120	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Fluorene	86-73-7			5,000			
Fluorine	7782-41-4	500	10	10	313	P056	1,000
Fluoroacetamide	640-19-7	100/10,000	100	100		P057	
Fluoroacetic acid	144-49-0	10/10,000	10				
Fluoroacetic acid, sodium salt	62-74-8	10/10,000	10	10	X	P058	
Fluoroacetyl chloride	359-06-8	10	10				
Fluorouracil	51-21-8	500/10,000	500		313		
5-Fluorouracil	51-21-8	500/10,000	500		X		
Fluvalinate	69409-94-5				313		
Folpet	133-07-3				313		
Fomesafen	72178-02-0				313		
Fonofos	944-22-9	500	500				
Formaldehyde	50-00-0	500	100	100	313	U122	15,000
Formaldehyde cyanohydrin	107-16-4	1,000	1,000				
Formaldehyde (solution)	50-00-0	500	100	100	X	U122	15,000
Formetanate hydrochloride	23422-53-9	500/10,000	100	100		P198	
Formic acid	64-18-6			5,000	313	U123	
Formic acid, methyl ester	107-31-3						10,000
Formothion	2540-82-1	100	100				
Formparanate	17702-57-7	100/10,000	100	100		P197	
Fosthietan	21548-32-3	500	500				
Freon 113	76-13-1				313		
Fuberidazole	3878-19-1	100/10,000	100				
Fumaric acid	110-17-8			5,000			
Furan	110-00-9	500	100	100	313	U124	5,000
Furan, tetrahydro-	109-99-9			1,000		U213	
Furfural	98-01-1			5,000		U125	
Gallium trichloride	13450-90-3	500/10,000	500				
Glycidol	556-52-5				313		
Glycidylaldehyde	765-34-4			10		U126	
Glycol Ethers	N230			&	313		
Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7			10		U163	
Guthion	86-50-0	10/10,000	1	1			
Haloethers	N.A.			&			
Halomethanes	N.A.			&			
Halon 1211	353-59-3				X		
Halon 1301	75-63-8				X		
Halon 2402	124-73-2				X		
HCFC-121	354-14-3				X		
HCFC-121a	354-11-0				X		
HCFC-123	306-83-2				X		
HCFC-123a	354-23-4				X		
HCFC-123b	812-04-4				X		
HCFC-124	2837-89-0				X		
HCFC-124a	354-25-6				X		
HCFC-132b	1649-08-7				X		
HCFC-133a	75-88-7				X		
HCFC-141b	1717-00-6				X		
HCFC-142b	75-68-3				X		
HCFC-21	75-43-4				X		
HCFC-22	75-45-6				X		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
HCFC-225aa	128903-21-9				X		
HCFC-225ba	422-48-0				X		
HCFC-225bb	422-44-6				X		
HCFC-225ca	422-56-0				X		
HCFC-225cb	507-55-1				X		
HCFC-225cc	13474-88-9				X		
HCFC-225da	431-86-7				X		
HCFC-225ea	136013-79-1				X		
HCFC-225eb	111512-56-2				X		
HCFC-253fb	460-35-5				X		
Heptachlor	76-44-8			1	313	P059	
Heptachlor and Metabolites	N.A.			&			
Heptachlor epoxide	1024-57-3			1			
1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	35822-46-9				313!		
1,2,3,4,7,8,9-heptachlorodibenzofuran	55673-89-7				313!		
1,2,3,4,6,7,8-heptachlorodibenzofuran	67562-39-4				313!		
1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene	76-44-8			1	X	P059	
Hexachlorobenzene	118-74-1			10	313	U127	
Hexachloro-1,3-butadiene	87-68-3			1	313	U128	
Hexachlorobutadiene	87-68-3			1	X	U128	
Hexachlorocyclohexane (all isomers)	608-73-1			&			
alpha-Hexachlorocyclohexane	319-84-6			10	313		
Hexachlorocyclohexane (gamma isomer)	58-89-9	1,000/10,000	1	1	X	U129	
Hexachlorocyclopentadiene	77-47-4	100	10	10	313	U130	
1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	19408-74-3				313!		
1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	39227-28-6				313!		
1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	57653-85-7				313!		
1,2,3,6,7,8-hexachlorodibenzofuran	57117-44-9				313!		
2,3,4,6,7,8-hexachlorodibenzofuran	60851-34-5				313!		
1,2,3,4,7,8-hexachlorodibenzofuran	70648-26-9				313!		
1,2,3,7,8,9-hexachlorodibenzofuran	72918-21-9				313!		
Hexachloroethane	67-72-1			100	313	U131	
Hexachloronaphthalene	1335-87-1				313		
Hexachlorophene	70-30-4			100	313	U132	
Hexachloropropene	1888-71-7			1,000		U243	
Hexaethyl tetraphosphate	757-58-4			100		P062	
Hexakis(2-methyl-2-phenylpropyl)distannoxane	13356-08-6				X		
Hexamethylenediamine, N,N'-dibutyl-	4835-11-4	500	500				
Hexamethylene-1,6-diisocyanate	822-06-0			100	313#		
Hexamethylphosphoramide	680-31-9			1	313		
Hexane	110-54-3			5,000	X		
n-Hexane	110-54-3			5,000	313		
Hexazinone	51235-04-2				313		
Hydramethylnon	67485-29-4				313		
Hydrazine	302-01-2	1,000	1	1	313	U133	15,000

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Hydrazine, 1,2-diethyl-	1615-80-1			10		U086	
Hydrazine, 1,1-dimethyl-	57-14-7	1,000	10	10	X	U098	15,000
Hydrazine, 1,2-dimethyl-	540-73-8			1		U099	
Hydrazine, 1,2-diphenyl-	122-66-7			10	X	U109	
Hydrazine, methyl-	60-34-4	500	10	10	X	P068	15,000
Hydrazine sulfate	10034-93-2				313		
Hydrazobenzene	122-66-7			10	X	U109	
Hydrochloric acid	7647-01-0			5,000			
Hydrochloric acid (conc 37% or greater)	7647-01-0			5,000			15,000
Hydrochloric acid (aerosol forms only)	7647-01-0			5,000	313		
Hydrocyanic acid	74-90-8	100	10	10	X	P063	2,500
Hydrofluoric acid	7664-39-3	100	100	100	X	U134	
Hydrofluoric acid (conc. 50% or greater)	7664-39-3	100	100	100	X	U134	1,000
Hydrogen	1333-74-0						10,000
Hydrogen chloride (anhydrous)	7647-01-0	500	5,000	5,000	X		5,000
Hydrogen chloride (gas only)	7647-01-0	500	5,000	5,000	X		5,000
Hydrogen cyanide	74-90-8	100	10	10	313	P063	2,500
Hydrogen fluoride	7664-39-3	100	100	100	313	U134	
Hydrogen fluoride (anhydrous)	7664-39-3	100	100	100	X	U134	1,000
Hydrogen peroxide (Conc.> 52%)	7722-84-1	1,000	1,000				
Hydrogen selenide	7783-35-9	10	10		313c		500
Hydrogen sulfide	7783-07-5	500	100	100	313	U135	10,000
Hydroperoxide, 1-methyl-1-phenylethyl-	80-15-9			10	X	U096	
Hydroquinone	123-31-9	500/10,000	100	100	313		
Imazalil	35554-44-0				313		
Indeno(1,2,3-cd)pyrene	193-39-5			100	313+	U137	
3-Iodo-2-propynyl butylcarbamate	55406-53-6				313		
Iron carbonyl (Fe(CO)5), (TB-5-11)-	13463-40-6	100	100		X		2,500
Iron, pentacarbonyl-	13463-40-6	100	100		313		2,500
Isobenzan	297-78-9	100/10,000	100				
Isobutane	75-28-5						10,000
Isobutyl alcohol	78-83-1			5,000		U140	
Isobutyraldehyde	78-84-2				313		
Isobutyronitrile	78-82-0	1,000	1,000				20,000
Isocyanic acid, 3,4-dichlorophenyl ester	102-36-3	500/10,000	500				
Isodrin	465-73-6	100/10,000	1	1	313	P060	
Isofenphos	25311-71-1				313		
Isofluorphate	55-91-4	100	100	100		P043	
1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-	133-06-2			10	X		
Isopentane	78-78-4						10,000
Isophorone	78-59-1			5,000			
Isophorone diisocyanate	4098-71-9	500	500		313#		
Isoprene	78-79-5			100	313		10,000
Isopropanolamine dodecylbenzene sulfonate	42504-46-1			1,000			
Isopropyl alcohol (mfg-strong acid	67-63-0				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
process)							
Isopropylamine	75-31-0						10,000
Isopropyl chloride	75-29-6						10,000
Isopropyl chloroformate	108-23-6	1,000	1,000				15,000
4,4'-Isopropylidenediphenol	80-05-7				313		
Isopropylmethylpyrazolyl dimethylcarbamate	119-38-0	500	100	100		P192	
Isosafrole	120-58-1			100	313	U141	
Isothiocyanatomethane	556-61-6	500	500		X		
Kepone	143-50-0			1		U142	
Lactofen	77501-63-4				313		
Lactonitrile	78-97-7	1,000	1,000				
Lasiocarpine	303-34-4			10		U143	
Lead	7439-92-1			10	313		
Lead acetate	301-04-2			10	313c	U144	
Lead arsenate	7645-25-2			1	313c		
Lead arsenate	7784-40-9			1	313c		
Lead arsenate	10102-48-4			1	313c		
Lead chloride	7758-95-4			10	313c		
Lead Compounds	N420			&	313		
Lead fluoborate	13814-96-5			10	313c		
Lead fluoride	7783-46-2			10	313c		
Lead iodide	10101-63-0			10	313c		
Lead nitrate	10099-74-8			10	313c		
Lead phosphate	7446-27-7			10	313c	U145	
Lead stearate	1072-35-1			10	313c		
Lead stearate	7428-48-0			10	313c		
Lead stearate	52652-59-2			10	313c		
Lead stearate	56189-09-4			10	313c		
Lead subacetate	1335-32-6			10	313c	U146	
Lead sulfate	7446-14-2			10	313c		
Lead sulfate	15739-80-7			10	313c		
Lead sulfide	1314-87-0			10	313c		
Lead thiocyanate	592-87-0			10	313c		
Leptophos	21609-90-5	500/10,000	500				
Lewisite	541-25-3	10	10				
Lindane	58-89-9	1,000/10,000	1	1	313	U129	
Linuron	330-55-2				313		
Lithium carbonate	554-13-2				313		
Lithium chromate	14307-35-8			10	313c		
Lithium hydride	7580-67-8	100	100				
Malathion	121-75-5			100	313		
Maleic acid	110-16-7			5,000			
Maleic anhydride	108-31-6			5,000	313	U147	
Maleic hydrazide	123-33-1			5,000		U148	
Malononitrile	109-77-3	500/10,000	1,000	1,000	313	U149	
Maneb	12427-38-2				313		
Manganese	7439-96-5				313		
Manganese, bis(dimethylcarbamodithioato-S,S')-	15339-36-3			10	313c	P196	
Manganese Compounds	N450			&	313		
Manganese, tricarbonyl	12108-13-3	100	100		313c		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
methylcyclopentadienyl							
MBOCA	101-14-4			10	X	U158	
MBT	149-30-4				X		
MCPA	94-74-6				X		
MDI	101-68-8			5,000	X		
Mechlorethamine	51-75-2	10	10		X		
Mecoprop	93-65-2				313		
Melphalan	148-82-3			1		U150	
Mephosfolan	950-10-7	500	500				
2-Mercaptobenzothiazole	149-30-4				313		
Mercaptodimethur	2032-65-7	500/10,000	10	10	X	P199	
Mercuric acetate	1600-27-7	500/10,000	500		313c		
Mercuric chloride	7487-94-7	500/10,000	500		313c		
Mercuric cyanide	592-04-1			1	313c		
Mercuric nitrate	10045-94-0			10	313c		
Mercuric oxide	21908-53-2	500/10,000	500		313c		
Mercuric sulfate	7783-35-9			10	313c		
Mercuric thiocyanate	592-85-8			10	313c		
Mercurous nitrate	7782-86-7			10	313c		
Mercurous nitrate	10415-75-5			10	313c		
Mercury	7439-97-6			1	313	U151	
Mercury Compounds	N458			&	313		
Mercury fulminate	628-86-4			10	313c	P065	
Merphos	150-50-5				313		
Methacrolein diacetate	10476-95-6	1,000	1,000				
Methacrylic anhydride	760-93-0	500	500				
Methacrylonitrile	126-98-7	500	1,000	1,000	313	U152	10,000
Methacryloyl chloride	920-46-7	100	100				
Methacryloyloxyethyl isocyanate	30674-80-7	100	100				
Methamidophos	10265-92-6	100/10,000	100				
Metham sodium	137-42-8				313		
Methanamine	74-89-5			100			10,000
Methanamine, N,N-dimethyl-	75-50-3			100			10,000
Methanamine, N-methyl-	124-40-3			1,000	X	U092	10,000
Methanamine, N-methyl-N-nitroso-	62-75-9	1,000	10	10	X	P082	
Methane	74-82-8						10,000
Methane, chloro-	74-87-3			100	X	U045	10,000
Methane, chloromethoxy-	107-30-2	100	10	10	X	U046	5,000
Methane, isocyanato-	624-83-9	500	10	10	X	P064	10,000
Methane, oxybis-	115-10-6						10,000
Methane, oxybis[chloro-	542-88-1	100	10	10	X	P016	1,000
Methanesulfenyl chloride, trichloro-	594-42-3	500	100	100	X		10,000
Methanesulfonyl fluoride	558-25-8	1,000	1,000				
Methane, tetranitro-	509-14-8	500	10	10		P112	10,000
Methanethiol	74-93-1	500	100	100	X	U153	10,000
Methane, trichloro-	67-66-3	10,000	10	10	X	U044	20,000
4,7-Methanoindan, 1,2,3,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	57-74-9	1,000	1	1	X	U036	
Methanol	67-56-1			5,000	313	U154	
Methapyrilene	91-80-5			5,000		U155	
Methazole	20354-26-1				313		
Methidathion	950-37-8	500/10,000	500				

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Methiocarb	2032-65-7	500/10,000	10	10	313	P199	
Methomyl	16752-77-5	500/10,000	100	100		P066	
Methoxone	94-74-6				313		
Methoxone sodium salt	3653-48-3				313		
Methoxychlor	72-43-5			1	313	U247	
2-Methoxyethanol	109-86-4				313		
Methoxyethylmercuric acetate	151-38-2	500/10,000	500		313c		
2-(4-Methoxy-6-methyl-1,3,5-triazin-2-yl)-methylamino)carbonyl)amino)sulfonyl) benzoic acid, methyl ester	101200-48-0				X		
Methyl acrylate	96-33-3				313		
Methyl bromide	74-83-9	1,000	1,000	1,000	X	U029	
2-Methyl-1-butene	563-46-2						10,000
3-Methyl-1-butene	563-45-1						10,000
Methyl chloride	74-87-3			100	X	U045	10,000
Methyl 2-chloroacrylate	80-63-7	500	500				
Methyl chlorocarbonate	79-22-1	500	1,000	1,000	313	U156	5,000
Methyl chloroform	71-55-6			1,000	X	U226	
Methyl chloroformate	79-22-1	500	1,000	1,000	X	U156	5,000
3-Methylcholanthrene	56-49-5			10	313+	U157	
5-Methylchrysene	3697-24-3				313+		
4-Methyldiphenylmethane-3,4-diisocyanate	75790-84-0				313#		
6-Methyl-1,3-dithiolo[4,5-b]quinoxalin-2-one	2439-01-2				X		
4,4'-Methylenebis(2-chloroaniline)	101-14-4			10	313	U158	
2,2'-Methylenebis(4-chlorophenol	97-23-4				X		
4,4'-Methylenebis(N,N-dimethyl)benzenamine	101-61-1				313		
1,1'-Methylene bis(4-isocyanatocyclohexane)	5124-30-1				313#		
Methylenebis(phenylisocyanate)	101-68-8			5,000	313#		
Methylene bromide	74-95-3			1,000	313	U068	
Methylene chloride	75-09-2			1,000	X	U080	
4,4'-Methylenedianiline	101-77-9			10	313		
Methyl ether	115-10-6						10,000
Methyl ethyl ketone	78-93-3			5,000		U159	
Methyl ethyl ketone peroxide	1338-23-4			10		U160	
Methyleugenol	93-15-2				313		
Methyl formate	107-31-3						10,000
Methyl hydrazine	60-34-4	500	10	10	313	P068	15,000
Methyl iodide	74-88-4			100	313	U138	
Methyl isobutyl ketone	108-10-1			5,000	313	U161	
Methyl isocyanate	624-83-9	500	10	10	313	P064	10,000
Methyl isothiocyanate	556-61-6	500	500		313		
2-Methyllactonitrile	75-86-5	1,000	10	10	313	P069	
Methyl mercaptan	74-93-1	500	100	100	313s	U153	10,000
Methylmercuric dicyanamide	502-39-6	500/10,000	500		313c		
Methyl methacrylate	80-62-6			1,000	313	U162	
N-Methylolacrylamide	924-42-5				313		
Methyl parathion	298-00-0	100/10,000	100	100	313	P071	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Methyl phenkapton	3735-23-7	500	500				
Methyl phosphonic dichloride	676-97-1	100	100				
2-Methylpropene	115-11-7						10,000
2-Methylpyridine	109-06-8			5,000	313	U191	
N-Methyl-2-pyrrolidone	872-50-4				313		
Methyl tert-butyl ether	1634-04-4			1,000	313		
Methyl thiocyanate	556-64-9	10,000	10,000				20,000
Methylthiouracil	56-04-2			10		U164	
Methyltrichlorosilane	75-79-6	500	500				5,000
Methyl vinyl ketone	78-94-4	10	10				
Metiram	9006-42-2				313		
Metolcarb	1129-41-5	100/10,000	1,000	1,000		P190	
Metribuzin	21087-64-9				313		
Mevinphos	7786-34-7	500	10	10	313		
Mexacarbate	315-18-4	500/10,000	1,000	1,000		P128	
Michler's ketone	90-94-8				313		
Mitomycin C	50-07-7	500/10,000	10	10		U010	
Molinate	2212-67-1				313		
Molybdenum trioxide	1313-27-5				313		
Monochloropentafluoroethane	76-15-3				313		
Monocrotophos	6923-22-4	10/10,000	10				
Monoethylamine	75-04-7			100			10,000
Monomethylamine	74-89-5			100			10,000
Monuron	150-68-5				313		
Muscimol	2763-96-4	500/10,000	1,000	1,000		P007	
Mustard gas	505-60-2	500	500		313		
Myclobutanil	88671-89-0				313		
Nabam	142-59-6				313		
Naled	300-76-5			10	313		
Naphthalene	91-20-3			100	313	U165	
1,5-Naphthalene diisocyanate	3173-72-6				313#		
1-Naphthalenol, methylcarbamate	63-25-2			100	X	U279	
Naphthenic acid	1338-24-5			100			
1,4-Naphthoquinone	130-15-4			5,000		U166	
alpha-Naphthylamine	134-32-7			100	313	U167	
beta-Naphthylamine	91-59-8			10	313	U168	
Nickel	7440-02-0			100	313		
Nickel ammonium sulfate	15699-18-0			100	313c		
Nickel carbonyl	13463-39-3	1	10	10	313c	P073	1,000
Nickel chloride	7718-54-9			100	313c		
Nickel chloride	37211-05-5			100	313c		
Nickel Compounds	N495			&	313		
Nickel cyanide	557-19-7			10	313c	P074	
Nickel hydroxide	12054-48-7			10	313c		
Nickel nitrate	14216-75-2			100	313c		
Nickel sulfate	7786-81-4			100	313c		
Nicotine	54-11-5	100	100	100	313c	P075	
Nicotine and salts	N503				313		
Nicotine and salts	54-11-5			100	313c	P075	
Nicotine sulfate	65-30-5	100/10,000	100	100	313c		
Nitrapyrin	1929-82-4				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Nitrate compounds (water dissociable)	N511				313		
Nitric acid	7697-37-2	1,000	1,000	1,000	313		
Nitric acid (conc 80% or greater)	7697-37-2	1,000	1,000	1,000	X		15,000
Nitric oxide	10102-43-9	100	10	10 @		P076	10,000
Nitrilotriacetic acid	139-13-9				313		
p-Nitroaniline	100-01-6			5,000	313	P077	
5-Nitro-o-anisidine	99-59-2				313		
Nitrobenzene	98-95-3	10,000	1,000	1,000	313	U169	
4-Nitrobiphenyl	92-93-3			10	313		
6-Nitrochrysene	7496-02-8				313+		
Nitrocyclohexane	1122-60-7	500	500				
Nitrofen	1836-75-5				313		
Nitrogen dioxide	10102-44-0	100	10	10 @		P078	
Nitrogen dioxide	10544-72-6			10 @			
Nitrogen mustard	51-75-2	10	10		313		
Nitrogen oxide (NO)	10102-43-9	100	10	10 @		P076	10,000
Nitroglycerin	55-63-0			10	313	P081	
Nitromethane	75-52-5				313		
Nitrophenol (mixed isomers)	25154-55-6			100			
2-Nitrophenol	88-75-5			100	313		
4-Nitrophenol	100-02-7			100	313	U170	
m-Nitrophenol	554-84-7			100			
p-Nitrophenol	100-02-7			100	X	U170	
Nitrophenols	N.A.			&			
2-Nitropropane	79-46-9			10	313	U171	
1-Nitropyrene	5522-43-0				313+		
4–Nitropyrene	57835-92-4				313+		
Nitrosamines	N.A.			&			
N-Nitrosodi-n-butylamine	924-16-3			10	313	U172	
N-Nitrosodiethanolamine	1116-54-7			1		U173	
N-Nitrosodiethylamine	55-18-5			1	313	U174	
N-Nitrosodimethylamine	62-75-9	1,000	10	10	313	P082	
Nitrosodimethylamine	62-75-9	1,000	10	10	X	P082	
N-Nitrosodiphenylamine	86-30-6			100	313		
p-Nitrosodiphenylamine	156-10-5				313		
N-Nitrosodi-n-propylamine	621-64-7			10	313	U111	
N-Nitroso-N-ethylurea	759-73-9			1	313	U176	
N-Nitroso-N-methylurea	684-93-5			1	313	U177	
N-Nitroso-N-methylurethane	615-53-2			1		U178	
N-Nitrosomethylvinylamine	4549-40-0			10	313	P084	
N-Nitrosomorpholine	59-89-2			1	313		
N-Nitrosonornicotine	16543-55-8				313		
N-Nitrosopiperidine	100-75-4			10	313	U179	
N-Nitrosopyrrolidine	930-55-2			1		U180	
Nitrotoluene	1321-12-6			1,000			
m-Nitrotoluene	99-08-1			1,000			
o-Nitrotoluene	88-72-2			1,000			
p-Nitrotoluene	99-99-0			1,000			
5-Nitro-o-toluidine	99-55-8			100	313	U181	
Nitrous acid, ethyl ester	109-95-5						10,000
Norbormide	991-42-4	100/10,000	100				

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Norflurazon	27314-13-2				313		
1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	3268-87-9				313!		
1,2,3,4,6,7,8,9-octachlorodibenzofuran	39001-02-0				313!		
Octachloronaphthalene	2234-13-1				313		
Octachlorostyrene	29082-74-4				313		
Octanoic acid, 2,6-dibromo-4-cyanophenyl ester	1689-99-2				X		
Oleum (fuming sulfuric acid)	8014-95-7			1,000			10,000
o-Nitroanisole	91-23-6				313		
Organorhodium Complex (PMN-82-147)	0	10/10,000	10	PMN			
Oryzalin	19044-88-3				313		
Osmium oxide OsO4 (T-4)-	20816-12-0			1,000	X	P087	
Osmium tetroxide	20816-12-0			1,000	313	P087	
Ouabain	630-60-4	100/10,000	100				
7-Oxabicyclo(2.2.1)heptane-2,3-dicarboxylic acid, dipotassium salt	2164-07-0				X		
Oxamyl	23135-22-0	100/10,000	100	100		P194	
Oxetane, 3,3-bis(chloromethyl)-	78-71-7	500	500				
Oxirane	75-21-8	1,000	10	10	X	U115	10,000
Oxirane, (chloromethyl)-	106-89-8	1,000	100	100	X	U041	20,000
Oxirane, methyl-	75-56-9	10,000	100	100	X		10,000
Oxydemeton methyl	301-12-2				313		
Oxydiazon	19666-30-9				313		
Oxydisulfoton	2497-07-6	500	500				
Oxyfluorfen	42874-03-3				313		
Ozone	10028-15-6	100	100		313		
Paraformaldehyde	30525-89-4			1,000			
Paraldehyde	123-63-7			1,000	313	U182	
Paraquat dichloride	1910-42-5	10/10,000	10		313		
Paraquat methosulfate	2074-50-2	10/10,000	10				
Parathion	56-38-2	100	10	10	313	P089	
Parathion-methyl	298-00-0	100/10,000	100	100	X	P071	
Paris green	12002-03-8	500/10,000	1	1			
PCBs	1336-36-3			1	X		
PCNB	82-68-8			100	X	U185	
PCP	87-86-5			10	X		
Pebulate	1114-71-2				313		
Pendimethalin	40487-42-1				313		
Pentaborane	19624-22-7	500	500				
Pentachlorobenzene	608-93-5			10	313	U183	
1,2,3,7,8-pentachlorodibenzo-p-dioxin	40321-76-4				313!		
2,3,4,7,8-pentachlorodibenzofuran	57117-31-4				313!		
1,2,3,7,8-pentachlorodibenzofuran	57117-41-6				313!		
Pentachloroethane	76-01-7			10	313	U184	
Pentachloronitrobenzene	82-68-8			100	X	U185	
Pentachlorophenol	87-86-5			10	313		
Pentadecylamine	2570-26-5	100/10,000	100				
1,3-Pentadiene	504-60-9			100		U186	10,000
Pentane	109-66-0						10,000

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
1-Pentene	109-67-1						10,000
2-Pentene, (E)-	646-04-8						10,000
2-Pentene, (Z)-	627-20-3						10,000
Pentobarbital sodium	57-33-0				313		
Peracetic acid	79-21-0	500	500		313		10,000
Perchloroethylene	127-18-4			100	X	U210	
Perchloromethyl mercaptan	594-42-3	500	100	100	313		10,000
Permethrin	52645-53-1				313		
Phenacetin	62-44-2			100		U187	
Phenanthrene	85-01-8			5,000	313		
Phenol	108-95-2	500/10,000	1,000	1,000	313	U188	
Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1			100	X	U411	
Phenol, 3-(1-methylethyl)-, methylcarbamate	64-00-6	500/10,000	10	10		P202	
Phenolphthalein	77-09-8				313		
Phenol, 2,2'-thiobis[4-chloro-6-methyl-	4418-66-0	100/10,000	100				
Phenothrin	26002-80-2				313		
Phenoxarsine, 10,10'-oxydi-	58-36-6	500/10,000	500				
(2-(4-Phenoxyphenoxy)ethyl carbamic acid ethyl ester	72490-01-8				X		
Phenyl dichloroarsine	696-28-6	500	1	1		P036	
(1,2-Phenylenebis(iminocarbonothioyl)) biscarbamic acid diethyl ester	23564-06-9				X		
1,2-Phenylenediamine	95-54-5				313		
p-Phenylenediamine	106-50-3			5,000	313		
1,3-Phenylenediamine	108-45-2				313		
1,2-Phenylenediamine dihydrochloride	615-28-1				313		
1,4-Phenylenediamine dihydrochloride	624-18-0				313		
1,4-Phenylene diisocyanate	104-49-4				313#		
1,3-Phenylene diisocyanate	123-61-5				313#		
Phenylhydrazine hydrochloride	59-88-1	1,000/10,000	1,000				
Phenylmercuric acetate	62-38-4	500/10,000	100	100	313c	P092	
Phenylmercury acetate	62-38-4	500/10,000	100	100	313c	P092	
5-(Phenylmethyl)-3-furanyl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate	10453-86-8				X		
2-Phenylphenol	90-43-7				313		
Phenylsilatrane	2097-19-0	100/10,000	100				
Phenylthiourea	103-85-5	100/10,000	100	100		P093	
Phenytoin	57-41-0				313		
Phorate	298-02-2	10	10	10		P094	
Phosacetim	4104-14-7	100/10,000	100				
Phosfolan	947-02-4	100/10,000	100				
Phosgene	75-44-5	10	10	10	313	P095	500
Phosphamidon	13171-21-6	100	100				
Phosphine	7803-51-2	500	100	100	313	P096	5,000
Phosphonic acid, (2,2,2-trichloro-1-hydroxyethyl)-,dimethyl ester	52-68-6			100	X		
Phosphonothioic acid, methyl-, O-ethyl O-(4-(methylthio)phenyl) ester	2703-13-1	500	500				

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Phosphonothioic acid, methyl-, S-(2-(bis(1-methylethyl)amino)ethyl) O-ethyl ester	50782-69-9	100	100				
Phosphonothioic acid, methyl-, O-(4-nitrophenyl) O-phenyl ester	2665-30-7	500	500				
Phosphoric acid	7664-38-2			5,000			
Phosphoric acid, 2-chloro-1-(2,3,5-trichlorophenyl) ethenyl dimethyl ester	961-11-5				X		
Phosphoric acid, 2-dichloroethenyl dimethyl ester	62-73-7	1,000	10	10	X		
Phosphoric acid, dimethyl 4-(methylthio) phenyl ester	3254-63-5	500	500				
Phosphorodithioic acid O-ethyl S,S-dipropyl ester	13194-48-4	1,000	1,000		X		
Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester	56-38-2	100	10	10	X	P089	
Phosphorothioic acid, O,O-dimethyl-5-(2-(methylthio)ethyl)ester	2587-90-8	500	500				
Phosphorous trichloride	7719-12-2	1,000	1,000	1,000			15,000
Phosphorus (yellow or white)	7723-14-0	100	1	1	313		
Phosphorus	7723-14-0	100	1	1			
Phosphorus oxychloride	10025-87-3	500	1,000	1,000			5,000
Phosphorus pentachloride	10026-13-8	500	500				
Phosphorus trichloride	7720-78-7	1,000	1,000	1,000			15,000
Phosphoryl chloride	10025-87-3	500	1,000	1,000			5,000
Phthalate Esters	N.A.			&			
Phthalic anhydride	85-44-9			5,000	313	U190	
Physostigmine	57-47-6	100/10,000	100	100		P204	
Physostigmine, salicylate (1:1)	57-64-7	100/10,000	100	100		P188	
Picloram	1918-02-1				313		
2-Picoline	109-06-8			5,000	X	U191	
Picric acid	88-89-1				313		
Picrotoxin	124-87-8	500/10,000	500				
N,N'-(1,4-Piperazinediylbis(2,2,2-trichloroethylidene)) bisformamide	26644-46-2				X		
Piperidine	110-89-4	1,000	1,000				15,000
Piperonyl butoxide	51-03-6				313		
Pirimifos-ethyl	23505-41-1	1,000	1,000				
Pirimiphos methyl	29232-93-7				313		
Plumbane, tetramethyl-	75-74-1	100	100				10,000
Polybrominated Biphenyls (PBBs)	N575				313		
Polychlorinated alkanes (C10 to C13)	N583				313		
Polychlorinated biphenyls	1336-36-3			1	313		
Polycyclic aromatic compounds (includes only 23 chemicals)	N590				313		
Polycyclic organic matter	N.A.			&			
Polymeric diphenylmethane diisocyanate	9016-87-9				313#		
Polynuclear Aromatic Hydrocarbons	N.A.			&			
Potassium arsenate	7784-41-0			1	313c		
Potassium arsenite	10124-50-2	500/10,000	1	1	313c		
Potassium bichromate	7778-50-9			10	313c		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Potassium bromate	7758-29-4				313		
Potassium chromate	7789-00-6			10	313c		
Potassium cyanide	151-50-8	100	10	10	313c	P098	
Potassium dimethyldithiocarbamate	128-03-0				313		
Potassium hydroxide	1310-58-3			1,000			
Potassium N-methyldithiocarbamate	137-41-7				313		
Potassium permanganate	7722-64-7			100	313c		
Potassium silver cyanide	506-61-6	500	1	1	313c	P099	
Profenofos	41198-08-7				313		
Promecarb	2631-37-0	500/10,000	1,000	1,000		P201	
Prometryn	7287-19-6				313		
Pronamide	23950-58-5			5,000	313	U192	
Propachlor	1918-16-7				313		
1,2-Propadiene	463-49-0						10,000
Propadiene	463-49-0						10,000
2-Propanamine	75-31-0						10,000
Propane	74-98-6						10,000
Propane, 2-chloro-	75-29-6						10,000
Propane 1,2-dichloro-	78-87-5			1,000	X	U083	
Propane, 2,2-dimethyl-	463-82-1						10,000
Propane, 2-methyl	75-28-5						10,000
Propanenitrile	107-12-0	500	10	10		P101	10,000
Propanenitrile, 2-methyl-	78-82-0	1,000	1,000				20,000
Propane sultone	1120-71-4			10	313	U193	
1,3-Propane sultone	1120-71-4			10	X	U193	
Propanil	709-98-8				313		
Propargite	2312-35-8			10	313		
Propargyl alcohol	107-19-7			1,000	313	P102	
Propargyl bromide	106-96-7	10	10				
2-Propenal	107-02-8	500	1	1	X	P003	5,000
2-Propen-1-amine	107-11-9	500	500		X		10,000
Propene	115-07-1				X		10,000
1-Propene	115-07-1				X		10,000
1-Propene, 1-chloro-	590-21-6						10,000
1-Propene, 2-chloro-	557-98-2						10,000
1-Propene, 2-methyl-	115-11-7						10,000
2-Propenenitrile	107-13-1	10,000	100	100	X	U009	20,000
2-Propenenitrile, 2-methyl-	126-98-7	500	1,000	1,000	X	U152	10,000
2-Propen-1-ol	107-18-6	1,000	100	100	X	P005	15,000
2-Propenoyl chloride	814-68-6	100	100				5,000
Propetamphos	31218-83-4				313		
Propham	122-42-9			1,000		U373	
Propiconazole	60207-90-1				313		
beta-Propiolactone	57-57-8	500	10	10	313		
Propionaldehyde	123-38-6			1,000	313		
Propionic acid	79-09-4			5,000			
Propionic anhydride	123-62-6			5,000			
Propionitrile	107-12-0	500	10	10		P101	10,000
Propionitrile, 3-chloro-	542-76-7	1,000	1,000	1,000	X	P027	
Propiophenone, 4'-amino	70-69-9	100/10,000	100				
Propoxur	114-26-1			100	313	U411	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
n-Propylamine	107-10-8			5,000		U194	
Propyl chloroformate	109-61-5	500	500				15,000
Propylene	115-07-1				313		10,000
Propyleneimine	75-55-8	10,000	1	1	313	P067	10,000
Propylene oxide	75-56-9	10,000	100	100	313		10,000
1-Propyne	74-99-7						10,000
Propyne	74-99-7						10,000
Prothoate	2275-18-5	100/10,000	100				
Pyrene	129-00-0	1,000/10,000	5,000	5,000			
Pyrethrins	121-21-1			1			
Pyrethrins	121-29-9			1			
Pyrethrins	8003-34-7			1			
Pyridine	110-86-1			1,000	313	U196	
Pyridine, 4-amino-	504-24-5	500/10,000	1,000	1,000		P008	
Pyridine, 3-(1-methyl-2-pyrrolidinyl)-,(S)-	54-11-5	100	100	100		P075	
Pyridine, 2-methyl-5-vinyl-	140-76-1	500	500				
Pyridine, 4-nitro-, 1-oxide	1124-33-0	500/10,000	500				
2,4-(1H,3H)-Pyrimidinedione, 5-bromo-6-methyl-3-(1-methylpropyl), lithium salt	53404-19-6				X		
Pyriminil	53558-25-1	100/10,000	100				
Quinoline	91-22-5			5,000	313		
Quinone	106-51-4			10	313	U197	
Quintozene	82-68-8			100	313	U185	
Quizalofop-ethyl	76578-14-8				313		
Reserpine	50-55-5			5,000		U200	
Resmethrin	10453-86-8				313		
Resorcinol	108-46-3			5,000		U201	
Saccharin (manufacturing)	81-07-2			100	313	U202	
Saccharin and salts	81-07-2			100		U202	
Safrole	94-59-7			100	313	U203	
Salcomine	14167-18-1	500/10,000	500				
Sarin	107-44-8	10	10				
Selenious acid	7783-00-8	1,000/10,000	10	10	313c	U204	
Selenious acid, dithallium(1+) salt	12039-52-0			1,000	313c	P114	
Selenium	7782-49-2			100	313		
Selenium Compounds	N725			&	313		
Selenium dioxide	7446-08-4			10	313c		
Selenium oxychloride	7791-23-3	500	500		313c		
Selenium sulfide	7488-56-4			10	313c	U205	
Selenourea	630-10-4			1,000		P103	
Semicarbazide hydrochloride	563-41-7	1,000/10,000	1,000				
Sethoxydim	74051-80-2				313		
Silane	7803-62-5						10,000
Silane, (4-aminobutyl)diethoxymethyl-	3037-72-7	1,000	1,000				
Silane, chlorotrimethyl-	75-77-4	1,000	1,000				10,000
Silane, dichloro-	4109-96-0						10,000
Silane, dichlorodimethyl-	75-78-5	500	500				5,000
Silane, tetramethyl-	75-76-3						10,000
Silane, trichloro-	10025-78-2						10,000
Silane, trichloromethyl-	75-79-6	500	500				5,000

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Silver	7440-22-4			1,000	313		
Silver Compounds	N740			&	313		
Silver cyanide	506-64-9			1	313c	P104	
Silver nitrate	7761-88-8			1	313c		
Silvex (2,4,5-TP)	93-72-1			100			
Simazine	122-34-9				313		
Sodium	7440-23-5			10			
Sodium arsenate	7601-54-9	1,000/10,000	1	1	313c		
Sodium arsenite	7784-46-5	500/10,000	1	1	313c		
Sodium azide (Na(N3))	26628-22-8	500	1,000	1,000	313	P105	
Sodium bichromate	10588-01-9			10	313c		
Sodium bifluoride	1333-83-1			100			
Sodium bisulfite	7631-90-5			5,000			
Sodium cacodylate	124-65-2	100/10,000	100				
Sodium chromate	7778-39-4			10	313c		
Sodium cyanide (Na(CN))	143-33-9	100	10	10	313c	P106	
Sodium dicamba	1982-69-0				313		
Sodium dimethyldithiocarbamate	128-04-1				313		
Sodium dodecylbenzenesulfonate	25155-30-0			1,000			
Sodium fluoride	7681-49-4			1,000			
Sodium fluoroacetate	62-74-8	10/10,000	10	10	313	P058	
Sodium hydrosulfide	16721-80-5			5,000			
Sodium hydroxide	1310-73-2			1,000			
Sodium hypochlorite	7681-52-9			100			
Sodium hypochlorite	10022-70-5			100			
Sodium methylate	124-41-4			1,000			
Sodium methyldithiocarbamate	137-42-8				X		
Sodium nitrite	7632-00-0			100	313		
Sodium pentachlorophenate	131-52-2				313		
Sodium o-phenylphenoxide	132-27-4				313		
Sodium phosphate, dibasic	7558-79-4			5,000			
Sodium phosphate, dibasic	10039-32-4			5,000			
Sodium phosphate, dibasic	10140-65-5			5,000			
Sodium phosphate, tribasic	7758-29-4			5,000			
Sodium phosphate, tribasic	10101-89-0			5,000			
Sodium phosphate, tribasic	10361-89-4			5,000			
Sodium selenate	13410-01-0	100/10,000	100		313c		
Sodium selenite	7782-82-3			100	313c		
Sodium selenite	10102-18-8	100/10,000	100	100	313c		
Sodium tellurite	10102-20-2	500/10,000	500				
Stannane, acetoxytriphenyl-	900-95-8	500/10,000	500				
Streptozotocin	18883-66-4			1		U206	
Strontium chromate	7789-06-2			10	313c		
Strychnine and salts	N746				313		
Strychnine	57-24-9	100/10,000	10	10	313c	P108	
Strychnine, and salts	57-24-9			10	313c	P108	
Strychnine, sulfate	60-41-3	100/10,000	10	10	313c		
Styrene	100-42-5			1,000	313		
Styrene oxide	96-09-3			100	313		
Sulfotep	3689-24-5	500	100	100		P109	
Sulfoxide, 3-chloropropyl octyl	3569-57-1	500	500				

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Sulfur dioxide	7446-09-5	500	500				
Sulfur dioxide (anhydrous)	7446-09-5	500	500				5,000
Sulfur fluoride (SF4), (T-4)-	7783-60-0	100	100				2,500
Sulfuric acid (aerosol forms only)	7664-93-9	1,000	1,000	1,000	313		
Sulfuric acid	7664-93-9	1,000	1,000	1,000			
Sulfuric acid (fuming)	8014-95-7			1,000			10,000
Sulfuric acid, mixture with sulfur trioxide	8014-95-7			1,000			10,000
Sulfur monochloride	12771-08-3			1,000			
Sulfur phosphide	1314-80-3			100		U189	
Sulfur tetrafluoride	7783-60-0	100	100				2,500
Sulfur trioxide	7446-11-9	100	100				10,000
Sulfuryl fluoride	2699-79-8				313		
Sulprofos	35400-43-2				313		
2,4,5-T acid	93-76-5			1,000			
2,4,5-T amines	1319-72-8			5,000			
2,4,5-T amines	2008-46-0			5,000			
2,4,5-T amines	3813-14-7			5,000			
2,4,5-T amines	6369-96-6			5,000			
2,4,5-T amines	6369-97-7			5,000			
2,4,5-T esters	93-79-8			1,000			
2,4,5-T esters	1928-47-8			1,000			
2,4,5-T esters	2545-59-7			1,000			
2,4,5-T esters	25168-15-4			1,000			
2,4,5-T esters	61792-07-2			1,000			
2,4,5-T salts	13560-99-1			1,000			
Tabun	77-81-6	10	10				
Tebuthiuron	34014-18-1				313		
Tellurium hexafluoride	7783-80-4	100	100				
Temephos	3383-96-8				313		
TEPP	107-49-3	100	10	10		P111	
Terbacil	5902-51-2				313		
Terbufos	13071-79-9	100	100				
Tetrabromobisphenol A	79-94-7				313		
1,2,4,5-Tetrachlorobenzene	95-94-3			5,000		U207	
2,3,7,8-tetrachlorodibenzofuran	51207-31-9				313!		
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6			1	313!		
1,1,2,2-Tetrachloroethane	79-34-5			100	313	U209	
1,1,1,2-Tetrachloroethane	630-20-6			100	313	U208	
Tetrachloroethylene	127-18-4			100	313	U210	
1,1,2,2-Tetrachloro-1-fluoroethane	354-14-3				313		
1,1,1,2-Tetrachloro-2-fluoroethane	354-11-0				313		
2,3,4,6-Tetrachlorophenol	58-90-2			10	313c		
Tetrachlorvinphos	961-11-5				313		
Tetracycline hydrochloride	64-75-5				313		
Tetraethyldithiopyrophosphate	3689-24-5	500	100	100		P109	
Tetraethyl lead	78-00-2	100	10	10	313c	P110	
Tetraethyl pyrophosphate	107-49-3	100	10	10		P111	
Tetraethyltin	597-64-8	100	100				
Tetrafluoroethylene	116-14-3				313		10,000
Tetrahydro-5,5-dimethyl-2(1H)-	67485-29-4				X		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
pyrimidinone(3-(4-(trifluoromethyl)phenyl)-1-(2-(4-(trifluoromethyl)phenyl)ethenyl)-2-propenylidene)hydrazone							
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione	533-74-4				X		
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione, ion(1-), sodium	53404-60-7				X		
Tetramethrin	7696-12-0				313		
2,2,3,3-Tetramethylcyclopropane carboxylic acid cyano(3-phenoxyphenyl)methyl ester	39515-41-8				X		
Tetramethyllead	75-74-1	100	100		313c		10,000
Tetramethylsilane	75-76-3						10,000
Tetranitromethane	509-14-8	500	10	10	313	P112	10,000
Thallic oxide	1314-32-5			100	313c	P113	
Thallium	7440-28-0			1,000	313		
Thallium(I) acetate	563-68-8			100	313c	U214	
Thallium(I) carbonate	6533-73-9	100/10,000	100	100	313c	U215	
Thallium chloride TlCl	7791-12-0	100/10,000	100	100	313c	U216	
Thallium Compounds	N760			&	313		
Thallium(I) nitrate	10102-45-1			100	313c	U217	
Thallium(I) sulfate	7446-18-6	100/10,000	100	100	313c	P115	
Thallium sulfate	10031-59-1	100/10,000	100	100	313c		
Thallous carbonate	6533-73-9	100/10,000	100	100	313c	U215	
Thallous chloride	7791-12-0	100/10,000	100	100	313c	U216	
Thallous malonate	2757-18-8	100/10,000	100				
Thallous sulfate	7446-18-6	100/10,000	100	100	313c	P115	
Thiabendazole	148-79-8				313		
2-(4-Thiazolyl)-1H-benzimidazole	148-79-8				X		
Thioacetamide	62-55-5			10	313	U218	
Thiobencarb	28249-77-6				313		
Thiocarbazide	2231-57-4	1,000/10,000	1,000				
Thiocyanic acid, methyl ester	556-64-9	10,000	10,000				20,000
4,4'-Thiodianiline	139-65-1				313		
Thiodicarb	59669-26-0			100	313	U410	
Thiofanox	39196-18-4	100/10,000	100	100		P045	
Thiomethanol	74-93-1	500	100	100	X	U153	10,000
Thionazin	297-97-2	500	100	100		P040	
Thiophanate ethyl	23564-06-9				313		
Thiophanate-methyl	23564-05-8			10	313	U409	
Thiophenol	108-98-5	500	100	100		P014	
Thiosemicarbazide	79-19-6	100/10,000	100	100	313	P116	
Thiourea	62-56-6			10	313	U219	
Thiourea, (2-chlorophenyl)-	5344-82-1	100/10,000	100	100		P026	
Thiourea, (2-methylphenyl)-	614-78-8	500/10,000	500				
Thiourea, 1-naphthalenyl-	86-88-4	500/10,000	100	100		P072	
Thiram	137-26-8			10	313	U244	
Thorium dioxide	1314-20-1				313		
Titanium chloride (TiCl4) (T-4)-	7550-45-0	100	1,000	1,000	X		2,500
Titanium tetrachloride	7550-45-0	100	1,000	1,000	313		2,500
o-Tolidine	119-93-7			10	X	U095	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
o-Tolidine dihydrochloride	612-82-8				X		
o-Tolidine dihydrofluoride	41766-75-0				X		
Toluene	108-88-3			1,000	313	U220	
Toluenediamine	25376-45-8			10	X	U221	
Toluene-2,4-diisocyanate	584-84-9	500	100	100	313		10,000
Toluene-2,6-diisocyanate	91-08-7	100	100	100	313		10,000
Toluenediisocyanate (mixed isomers)	26471-62-5			100	313	U223	10,000
Toluene diisocyanate (unspecified isomer)	26471-62-5			100	X	U223	10,000
o-Toluidine	95-53-4			100	313	U328	
p-Toluidine	106-49-0			100		U353	
o-Toluidine hydrochloride	636-21-5			100	313	U222	
Toxaphene	8001-35-2	500/10,000	1	1	313	P123	
2,4,5-TP esters	32534-95-5			100			
Triadimefon	43121-43-3				313		
Triallate	2303-17-5			100	313	U389	
Triamiphos	1031-47-6	500/10,000	500				
Triaziquone	68-76-8				313		
Triazofos	24017-47-8	500	500				
Tribenuron methyl	101200-48-0				313		
Tribromomethane	75-25-2			100	X	U225	
Tributyltin fluoride	1983-10-4				313		
Tributyltin methacrylate	2155-70-6				313		
S,S,S-Tributyltrithiophosphate	78-48-8				313		
Trichlorfon	52-68-6			100	313		
Trichloroacetyl chloride	76-02-8	500	500		313		
1,2,4-Trichlorobenzene	120-82-1			100	313		
Trichloro(chloromethyl)silane	1558-25-4	100	100				
Trichloro(dichlorophenyl)silane	27137-85-5	500	500				
1,1,1-Trichloroethane	71-55-6			1,000	313	U226	
1,1,2-Trichloroethane	79-00-5			100	313	U227	
Trichloroethylene	79-01-6			100	313	U228	
Trichloroethylsilane	115-21-9	500	500				
Trichlorofluoromethane	75-69-4			5,000	313	U121	
Trichloromethanesulfenyl chloride	594-42-3	500	100	100	X		10,000
Trichloromonofluoromethane	75-69-4			5,000	X	U121	
Trichloronate	327-98-0	500	500				
Trichlorophenol	25167-82-2			10	313c		
2,3,4-Trichlorophenol	15950-66-0			10	313c		
2,3,5-Trichlorophenol	933-78-8			10	313c		
2,3,6-Trichlorophenol	933-75-5			10	313c		
2,4,5-Trichlorophenol	95-95-4			10	313		
2,4,6-Trichlorophenol	88-06-2			10	313		
3,4,5-Trichlorophenol	609-19-8			10			
Trichlorophenylsilane	98-13-5	500	500				
1,2,3-Trichloropropane	96-18-4				313		
Trichlorosilane	10025-78-2						10,000
Triclopyr triethylammonium salt	57213-69-1				313		
Triethanolamine dodecylbenzene sulfonate	27323-41-7			1,000			
Triethoxysilane	998-30-1	500	500				
Triethylamine	121-44-8			5,000	313	U404	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Trifluorochloroethylene	79-38-9						10,000
2-(4-((5-(Trifluoromethyl)-2-pyridinyl)oxy)-phenoxy)propanoic acid, butyl ester	69806-50-4				X		
Trifluralin	1582-09-8			10	313		
Triforine	26644-46-2				313		
Trimethylamine	75-50-3			100			10,000
1,2,4-Trimethylbenzene	95-63-6				313		
Trimethylchlorosilane	75-77-4	1,000	1,000				10,000
2,4,4-Trimethylhexamethylene diisocyanate	15646-96-5				313#		
2,2,4-Trimethylhexamethylene diisocyanate	16938-22-0				313#		
Trimethylolpropane phosphite	824-11-3	100/10,000	100				
2,2,4-Trimethylpentane	540-84-1			1,000			
2,3,5-Trimethylphenyl methylcarbamate	2655-15-4				313		
Trimethyltin chloride	1066-45-1	500/10,000	500				
1,3,5-Trinitrobenzene	99-35-4			10		U234	
Triphenyltin chloride	639-58-7	500/10,000	500		313		
Triphenyltin hydroxide	76-87-9				313		
Tris(2-chloroethyl)amine	555-77-1	100	100				
Tris(2,3-dibromopropyl) phosphate	126-72-7			10	313	U235	
Tris(dimethylcarbamodithioato-S,S')iron	14484-64-1				X		
Trypan blue	72-57-1			10	313	U236	
Uracil mustard	66-75-1			10		U237	
Uranyl acetate	541-09-3			100			
Uranyl nitrate	10102-06-4			100			
Uranyl nitrate	36478-76-9			100			
Urea, N,N-dimethyl-N'-[3-(trifluoromethyl)phenyl]-	2164-17-2				X		
Urethane	51-79-6			100	313	U238	
Valinomycin	2001-95-8	1,000/10,000	1,000				
Vandium (except when contained in an alloy)	7440-62-2				313		
Vanadium Compounds	N770				313		
Vanadium pentoxide	1314-62-1	100/10,000	1,000	1,000	313c	P120	
Vanadyl sulfate	27774-13-6			1,000	313c		
Vikane	2699-79-8				X		
Vinclozolin	50471-44-8				313		
Vinyl acetate	108-05-4	1,000	5,000	5,000	313		15,000
Vinyl acetate monomer	108-05-4	1,000	5,000	5,000	X		15,000
Vinyl acetylene	689-97-4						10,000
Vinyl bromide	593-60-2			100	313		
Vinyl chloride	75-01-4			1	313	U043	10,000
Vinyl ethyl ether	109-92-2						10,000
Vinyl fluoride	75-02-5				313		10,000
Vinylidene chloride	75-35-4			100	313	U078	10,000
Vinylidene fluoride	75-38-7						10,000
Vinyl methyl ether	107-25-5						10,000
Warfarin	81-81-2	500/10,000	100	100	X 313c	P001	

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Warfarin and salts	N874				313		
Warfarin, & salts, conc.>0.3%	81-81-2			100	X 313c	P001	
Warfarin sodium	129-06-6	100/10,000	100	100	313c		
m-Xylene	108-38-3			1,000	313	U239	
o-Xylene	95-47-6			1,000	313	U239	
p-Xylene	106-42-3			100	313	U239	
Xylene (mixed isomers)	1330-20-7			100	313	U239	
Xylenol	1300-71-6			1,000			
2,6-Xylidine	87-62-7				313		
Xylylene dichloride	28347-13-9	100/10,000	100				
Zinc (fume or dust)	7440-66-6			1,000	313		
Zinc	7440-66-6			1,000			
Zinc acetate	557-34-6			1,000	313c		
Zinc ammonium chloride	14639-97-5			1,000	313c		
Zinc ammonium chloride	14639-98-6			1,000	313c		
Zinc ammonium chloride	52628-25-8			1,000	313c		
Zinc borate	1332-07-6			1,000	313c		
Zinc bromide	7699-45-8			1,000	313c		
Zinc carbonate	3486-35-9			1,000	313c		
Zinc chloride	7646-85-7			1,000	313c		
Zinc Compounds	N982			&	313		
Zinc cyanide	557-21-1			10	313c	P121	
Zinc, dichloro(4,4-dimethyl-5((((methylamino)carbonyl)oxy)imino) pentanenitrile)-, (T-4)-	58270-08-9	100/10,000	100		313c		
Zinc fluoride	7783-49-5			1,000	313c		
Zinc formate	557-41-5			1,000	313c		
Zinc hydrosulfite	7779-86-4			1,000	313c		
Zinc nitrate	7779-88-6			1,000	313c		
Zinc phenolsulfonate	127-82-2			5,000	313c		
Zinc phosphide	1314-84-7	500	100	100	313c	P122	
Zinc phosphide (conc. <= 10%)	1314-84-7	500	100	100	313c	U249	
Zinc phosphide (conc. > 10%)	1314-84-7	500	100	100	313c	P122	
Zinc silicofluoride	16871-71-9			5,000	313c		
Zinc sulfate	7733-02-0			1,000	313c		
Zineb	12122-67-7				313		
Ziram	137-30-4			10		P205	
Zirconium nitrate	13746-89-9			5,000			
Zirconium potassium fluoride	16923-95-8			1,000			
Zirconium sulfate	14644-61-2			5,000			
Zirconium tetrachloride	10026-11-6			5,000			

APPENDIX B RADIONUCLIDES LISTED UNDER CERCLA

FOR REFERENCE ONLY, NOT FOR REGULATORY COMPLIANCE
SEE CFR PART 302, TABLE 302.4, APPENDIX B., FOR MORE INFORMATION

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Radionuclides@		1&(3.7E 10)
Actinium-224	89	100 (3.7E 12)
Actinium-225	89	1 (3.7E 10)
Actinium-226	89	10 (3.7E 11)
Actinium-227	89	0.001 (3.7E 7)
Actinium-228	89	10 (3.7E 11)
Aluminum-26	13	10 (3.7E 11)
Americium-237	95	1000 (3.7E 13)
Americium-238	95	100 (3.7E 12)
Americium-239	95	100 (3.7E 12)
Americium-240	95	10 (3.7E 11)
Americium-241	95	0.01 (3.7E 8)
Americium-242m	95	0.01 (3.7E 8)
Americium-242	95	100 (3.7E 12)
Americium-243	95	0.01 (3.7E 8)
Americium-244m	95	1000 (3.7E 13)
Americium-244	95	10 (3.7E 11)
Americium-245	95	1000 (3.7E 13)
Americium-246m	95	1000 (3.7E 13)
Americium-246	95	1000 (3.7E 13)
Antimony-115	51	1000 (3.7E 13)
Antimony-116m	51	100 (3.7E 12)
Antimony-116	51	1000 (3.7E 13)
Antimony-117	51	1000 (3.7E 13)
Antimony-118m	51	10 (3.7E 11)
Antimony-119	51	1000 (3.7E 13)
Antimony-120 (16 min)	51	1000 (3.7E 13)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Antimony-120 (5.76 day)	51	10 (3.7E 11)
Antimony-122	51	10 (3.7E 11)
Antimony-124m	51	1000 (3.7E 13)
Antimony-124	51	10 (3.7E 11)
Antimony-125	51	10 (3.7E 11)
Antimony-126m	51	1000 (3.7E 13)
Antimony-126	51	10 (3.7E 11)
Antimony-127	51	10 (3.7E 11)
Antimony-128 (10.4 min)	51	1000 (3.7E 13)
Antimony-128 (9.01 hr)	51	10 (3.7E 11)
Antimony-129	51	100 (3.7E 12)
Antimony-130	51	100 (3.7E 12)
Antimony-131	51	1000 (3.7E 13)
Argon-39	18	1000 (3.7E 13)
Argon-41	18	10 (3.7E 11)
Arsenic-69	33	1000 (3.7E 13)
Arsenic-70	33	100 (3.7E 12)
Arsenic-71	33	100 (3.7E 12)
Arsenic-72	33	10 (3.7E 11)
Arsenic-73	33	100 (3.7E 12)
Arsenic-74	33	10 (3.7E 11)
Arsenic-76	33	100 (3.7E 12)
Arsenic-77	33	1000 (3.7E 13)
Arsenic-78	33	100 (3.7E 12)
Astatine-207	85	100 (3.7E 12)
Astatine-211	85	100 (3.7E 12)

APPENDIX B RADIONUCLIDES LISTED UNDER CERCLA

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Barium-126	56	1000 (3.7E 13)
Barium-128	56	10 (3.7E 11)
Barium-131m	56	1000 (3.7E 13)
Barium-131	56	10 (3.7E 11)
Barium-133m	56	100 (3.7E 12)
Barium-133	56	10 (3.7E 11)
Barium-135m	56	1000 (3.7E 13)
Barium-139	56	1000 (3.7E 13)
Barium-140	56	10 (3.7E 11)
Barium-141	56	1000 (3.7E 13)
Barium-142	56	1000 (3.7E 13)
Berkelium-245	97	100 (3.7E 12)
Berkelium-246	97	10 (3.7E 11)
Berkelium-247	97	0.01 (3.7E 8)
Berkelium-249	97	1 (3.7E 10)
Berkelium-250	97	100 (3.7E 12)
Beryllium-7	4	100 (3.7E 12)
Beryllium-10	4	1 (3.7E 10)
Bismuth-200	83	100 (3.7E 12)
Bismuth-201	83	100 (3.7E 12)
Bismuth-202	83	1000 (3.7E 13)
Bismuth-203	83	10 (3.7E 11)
Bismuth-205	83	10 (3.7E 11)
Bismuth-206	83	10 (3.7E 11)
Bismuth-207	83	10 (3.7E 11)
Bismuth-210m	83	0.1 (3.7E 9)
Bismuth-210	83	10 (3.7E 11)
Bismuth-212	83	100 (3.7E 12)
Bismuth-213	83	100 (3.7E 12)
Bismuth-214	83	100 (3.7E 12)
Bromine-74m	35	100 (3.7E 12)
Bromine-74	35	100 (3.7E 12)
Bromine-75	35	100 (3.7E 12)
Bromine-76	35	10 (3.7E 11)
Bromine-77	35	100 (3.7E 12)
Bromine-80m	35	1000 (3.7E 13)
Bromine-80	35	1000 (3.7E 13)
Bromine-82	35	10 (3.7E 11)
Bromine-83	35	1000 (3.7E 13)
Bromine-84	35	100 (3.7E 12)
Cadmium-104	48	1000 (3.7E 13)
Cadmium-107	48	1000 (3.7E 13)
Cadmium-109	48	1 (3.7E 10)
Cadmium-113m	48	0.1 (3.7E 9)
Cadmium-113	48	0.1 (3.7E 9)
Cadmium-115m	48	10 (3.7E 11)
Cadmium-115	48	100 (3.7E 12)
Cadmium-117m	48	10 (3.7E 11)
Cadmium-117	48	100 (3.7E 12)
Calcium-41	20	10 (3.7E 11)
Calcium-45	20	10 (3.7E 11)
Calcium-47	20	10 (3.7E 11)
Californium-244	98	1000 (3.7E 13)
Californium-246	98	10 (3.7E 11)
Californium-248	98	0.1 (3.7E 9)
Californium-249	98	0.01 (3.7E 8)
Californium-250	98	0.01 (3.7E 8)
Californium-251	98	0.01 (3.7E 8)
Californium-252	98	0.1 (3.7E 9)
Californium-253	98	10 (3.7E 11)
Californium-254	98	0.1 (3.7E 9)
Carbon-11	6	1000 (3.7E 13)
Carbon-14	6	10 (3.7E 11)
Cerium-134	58	10 (3.7E 11)

APPENDIX B RADIONUCLIDES LISTED UNDER CERCLA

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Cerium-135	58	10 (3.7E 11)
Cerium-137m	58	100 (3.7E 12)
Cerium-137	58	1000 (3.7E 13)
Cerium-139	58	100 (3.7E 12)
Cerium-141	58	10 (3.7E 11)
Cerium-143	58	100 (3.7E 12)
Cerium-144	58	1 (3.7E 10)
Cesium-125	55	1000 (3.7E 13)
Cesium-127	55	100 (3.7E 12)
Cesium-129	55	100 (3.7E 12)
Cesium-130	55	1000 (3.7E 13)
Cesium-131	55	1000 (3.7E 13)
Cesium-132	55	10 (3.7E 11)
Cesium-134m	55	1000 (3.7E 13)
Cesium-134	55	1 (3.7E 10)
Cesium-135m	55	100 (3.7E 12)
Cesium-135	55	10 (3.7E 11)
Cesium-136	55	10 (3.7E 11)
Cesium-137	55	1 (3.7E 10)
Cesium-138	55	100 (3.7E 12)
Chlorine-36	17	10 (3.7E 11)
Chlorine-38	17	100 (3.7E 12)
Chlorine-39	17	100 (3.7E 12)
Chromium-48	24	100 (3.7E 12)
Chromium-49	24	1000 (3.7E 13)
Chromium-51	24	1000 (3.7E 13)
Cobalt-55	27	10 (3.7E 11)
Cobalt-56	27	10 (3.7E 11)
Cobalt-57	27	100 (3.7E 12)
Cobalt-58m	27	1000 (3.7E 13)
Cobalt-58	27	10 (3.7E 11)
Cobalt-60m	27	1000 (3.7E 13)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Cobalt-60	27	10 (3.7E 11)
Cobalt-61	27	1000 (3.7E 13)
Cobalt-62m	27	1000 (3.7E 13)
Copper-60	29	100 (3.7E 12)
Copper-61	29	100 (3.7E 12)
Copper-64	29	1000 (3.7E 13)
Copper-67	29	100 (3.7E 12)
Curium-238	96	1000 (3.7E 13)
Curium-240	96	1 (3.7E 10)
Curium-241	96	10 (3.7E 11)
Curium-242	96	1 (3.7E 10)
Curium-243	96	0.01 (3.7E 8)
Curium-244	96	0.01 (3.7E 8)
Curium-245	96	0.01 (3.7E 8)
Curium-246	96	0.01 (3.7E 8)
Curium-247	96	0.01 (3.7E 8)
Curium-248	96	0.001 (3.7E 7)
Curium-249	96	1000 (3.7E 13)
Dysprosium-155	66	100 (3.7E 12)
Dysprosium-157	66	100 (3.7E 12)
Dysprosium-159	66	100 (3.7E 12)
Dysprosium-165	66	1000 (3.7E 13)
Dysprosium-166	66	10 (3.7E 11)
Einsteinium-250	99	10 (3.7E 11)
Einsteinium-251	99	1000 (3.7E 13)
Einsteinium-253	99	10 (3.7E 11)
Einsteinium-254m	99	1 (3.7E 10)
Einsteinium-254	99	0.1 (3.7E 9)
Erbium-161	68	100 (3.7E 12)
Erbium-165	68	1000 (3.7E 13)
Erbium-169	68	100 (3.7E 12)
Erbium-171	68	100 (3.7E 12)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Erbium-172	68	10 (3.7E 11)
Europium-145	63	10 (3.7E 11)
Europium-146	63	10 (3.7E 11)
Europium-147	63	10 (3.7E 11)
Europium-148	63	10 (3.7E 11)
Europium-149	63	100 (3.7E 12)
Europium-150 (12.6 hr)	63	1000 (3.7E 13)
Europium-150 (34.2 yr)	63	10 (3.7E 11)
Europium-152m	63	100 (3.7E 12)
Europium-152	63	10 (3.7E 11)
Europium-154	63	10 (3.7E 11)
Europium-155	63	10 (3.7E 11)
Europium-156	63	10 (3.7E 11)
Europium-157	63	10 (3.7E 11)
Europium-158	63	1000 (3.7E 13)
Fermium-252	100	10 (3.7E 11)
Fermium-253	100	10 (3.7E 11)
Fermium-254	100	100 (3.7E 12)
Fermium-255	100	100 (3.7E 12)
Fermium-257	100	1 (3.7E 10)
Fluorine-18	9	1000 (3.7E 13)
Francium-222	87	100 (3.7E 12)
Francium-223	87	100 (3.7E 12)
Gadolinium-145	64	100 (3.7E 12)
Gadolinium-146	64	10 (3.7E 11)
Gadolinium-147	64	10 (3.7E 11)
Gadolinium-148	64	0.001 (3.7E7)
Gadolinium-149	64	100 (3.7E 12)
Gadolinium-151	64	100 (3.7E 12)
Gadolinium-152	64	0.001 (3.7E 7)
Gadolinium-153	64	10 (3.7E 11)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Gadolinium-159	64	1000 (3.7E 13)
Gallium-65	31	1000 (3.7E 13)
Gallium-66	31	10 (3.7E 11)
Gallium-67	31	100 (3.7E 12)
Gallium-68	31	1000 (3.7E 13)
Gallium-70	31	1000 (3.7E 13)
Gallium-72	31	10 (3.7E 11)
Gallium-73	31	100 (3.7E 12)
Germanium-66	32	100 (3.7E 12)
Germanium-67	32	1000 (3.7E 13)
Germanium-68	32	10 (3.7E 11)
Germanium-69	32	10 (3.7E 11)
Germanium-71	32	1000 (3.7E 13)
Germanium-75	32	1000 (3.7E 13)
Germanium-77	32	10 (3.7E 11)
Germanium-78	32	1000 (3.7E 13)
Gold-193	79	100 (3.7E 12)
Gold-194	79	10 (3.7E 11)
Gold-195	79	100 (3.7E 12)
Gold-198m	79	10 (3.7E 11)
Gold-198	79	100 (3.7E 12)
Gold-199	79	100 (3.7E 12)
Gold-200m	79	10 (3.7E 11)
Gold-200	79	1000 (3.7E 13)
Gold-201	79	1000 (3.7E 13)
Hafnium-170	72	100 (3.7E 12)
Hafnium-172	72	1 (3.7E 10)
Hafnium-173	72	100 (3.7E 12)
Hafnium-175	72	100 (3.7E 12)
Hafnium-177m	72	1000 (3.7E 13)
Hafnium-178m	72	0.1 (3.7E 9)
Hafnium-179m	72	100 (3.7E 12)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Hafnium-180m	72	100 (3.7E 12)
Hafnium-181	72	10 (3.7E 11)
Hafnium-182m	72	100 (3.7E 12)
Hafnium-182	72	0.1 (3.7E 9)
Hafnium-183	72	100 (3.7E 12)
Hafnium-184	72	100 (3.7E 12)
Holmium-155	67	1000 (3.7E 13)
Holmium-157	67	1000 (3.7E 13)
Holmium-159	67	1000 (3.7E 13)
Holmium-161	67	1000 (3.7E 13)
Holmium-162m	67	1000 (3.7E 13)
Holmium-162	67	1000 (3.7E 13)
Holmium-164m	67	1000 (3.7E 13)
Holmium-164	67	1000 (3.7E 13)
Holmium-166m	67	1 (3.7E 10)
Holmium-166	67	100 (3.7E 12)
Holmium-167	67	100 (3.7E 12)
Hydrogen-3	1	100 (3.7E 12)
Indium-109	49	100 (3.7E 12)
Indium-110 (69.1 min)	49	100 (3.7E 12)
Indium-110 (4.9 hr)	49	10 (3.7E 11)
Indium-111	49	100 (3.7E 12)
Indium-112	49	1000 (3.7E 13)
Indium-113m	49	1000 (3.7E 13)
Indium-114m	49	10 (3.7E 11)
Indium-115m	49	100 (3.7E 12)
Indium-115	49	0.1 (3.7E 9)
Indium-116m	49	100 (3.7E 12)
Indium-117m	49	100 (3.7E 12)
Indium-117	49	1000 (3.7E 13)
Indium-119m	49	1000 (3.7E 13)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Iodine-120m	53	100 (3.7E 12)
Iodine-120	53	10 (3.7E 11)
Iodine-121	53	100 (3.7E 12)
Iodine-123	53	10 (3.7E 11)
Iodine-124	53	0.1 (3.7E 9)
Iodine-125	53	0.01 (3.7E 8)
Iodine-126	53	0.01 (3.7E 8)
Iodine-128	53	1000 (3.7E 13)
Iodine-129	53	0.001 (3.7E 7)
Iodine-130	53	1 (3.7E 10)
Iodine-131	53	0.01 (3.7E 8)
Iodine-132m	53	10 (3.7E 11)
Iodine-132	53	10 (3.7E 11)
Iodine-133	53	0.1 (3.7E 9)
Iodine-134	53	100 (3.7E 12)
Iodine-135	53	10 (3.7E 11)
Iridium-182	77	1000 (3.7E 13)
Iridium-184	77	100 (3.7E 12)
Iridium-185	77	100 (3.7E 12)
Iridium-186	77	10 (3.7E 11)
Iridium-187	77	100 (3.7E 12)
Iridium-188	77	10 (3.7E 11)
Iridium-189	77	100 (3.7E 12)
Iridium-190m	77	1000 (3.7E 13)
Iridium-190	77	10 (3.7E 11)
Iridium-192m	77	100 (3.7E 12)
Iridium-192	77	10 (3.7E 11)
Iridium-194m	77	10 (3.7E 11)
Iridium-194	77	100 (3.7E 12)
Iridium-195m	77	100 (3.7E 12)
Iridium-195	77	1000 (3.7E 13)
Iron-52	26	100 (3.7E 12)

APPENDIX B RADIONUCLIDES LISTED UNDER CERCLA

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Iron-55	26	100 (3.7E 12)
Iron-59	26	10 (3.7E 11)
Iron-60	26	0.1 (3.7E 9)
Krypton-74	36	10 (3.7E 11)
Krypton-76	36	10 (3.7E 11)
Krypton-77	36	10 (3.7E 11)
Krypton-79	36	100 (3.7E 12)
Krypton-81	36	1000 (3.7E 13)
Krypton-83m	36	1000 (3.7E 13)
Krypton-85m	36	100 (3.7E 12)
Krypton-85	36	1000 (3.7E 13)
Krypton-87	36	10 (3.7E 11)
Krypton-88	36	10 (3.7E 11)
Lanthanum-131	57	1000 (3.7E 13)
Lanthanum-132	57	100 (3.7E 12)
Lanthanum-135	57	1000 (3.7E 13)
Lanthanum-137	57	10 (3.7E 11)
Lanthanum-138	57	1 (3.7E 10)
Lanthanum-140	57	10 (3.7E 11)
Lanthanum-141	57	1000 (3.7E 13)
Lanthanum-142	57	100 (3.7E 12)
Lanthanum-143	57	1000 (3.7E 13)
Lead-195m	82	1000 (3.7E 13)
Lead-198	82	100 (3.7E 12)
Lead-199	82	100 (3.7E 12)
Lead-200	82	100 (3.7E 12)
Lead-201	82	100 (3.7E 12)
Lead-202m	82	10 (3.7E 11)
Lead-202	82	1 (3.7E 10)
Lead-203	82	100 (3.7E 12)
Lead-205	82	100 (3.7E 12)
Lead-209	82	1000 (3.7E 13)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Lead-210	82	0.01 (3.7E 8)
Lead-211	82	100 (3.7E 12)
Lead-212	82	10 (3.7E 11)
Lead-214	82	100 (3.7E 12)
Lutetium-169	71	10 (3.7E 11)
Lutetium-170	71	10 (3.7E 11)
Lutetium-171	71	10 (3.7E 11)
Lutetium-172	71	10 (3.7E 11)
Lutetium-173	71	100 (3.7E 12)
Lutetium-174m	71	10 (3.7E 11)
Lutetium-174	71	10 (3.7E 11)
Lutetium-176m	71	1000 (3.7E 13)
Lutetium-176	71	1 (3.7E 10)
Lutetium-177m	71	10 (3.7E 11)
Lutetium-177	71	100 (3.7E 12)
Lutetium-178m	71	1000 (3.7E 13)
Lutetium-178	71	1000 (3.7E 13)
Lutetium-179	71	1000 (3.7E 13)
Magnesium-28	12	10 (3.7E 11)
Manganese-51	25	1000 (3.7E 13)
Manganese-52m	25	1000 (3.7E 13)
Manganese-52	25	10 (3.7E 11)
Manganese-53	25	1000 (3.7E 13)
Manganese-54	25	10 (3.7E 11)
Manganese-56	25	100 (3.7E 12)
Mendelevium-257	101	100 (3.7E 12)
Mendelevium-258	101	1 (3.7E 10)
Mercury-193m	80	10 (3.7E 11)
Mercury-193	80	100 (3.7E 12)
Mercury-194	80	0.1 (3.7E 9)
Mercury-195m	80	100 (3.7E 12)
Mercury-195	80	100 (3.7E 12)

APPENDIX B RADIONUCLIDES LISTED UNDER CERCLA

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Mercury-197m	80	1000 (3.7E 13)
Mercury-197	80	1000 (3.7E 13)
Mercury-199m	80	1000 (3.7E 13)
Mercury-203	80	10 (3.7E 11)
Molybdenum-90	42	100 (3.7E 12)
Molybdenum-93m	42	10 (3.7E 11)
Molybdenum-93	42	100 (3.7E 12)
Molybdenum-99	42	100 (3.7E 12)
Molybdenum-101	42	1000 (3.7E 13)
Neodymium-136	60	1000 (3.7E 13)
Neodymium-138	60	1000 (3.7E 13)
Neodymium-139m	60	100 (3.7E 12)
Neodymium-139	60	1000 (3.7E 13)
Neodymium-141	60	1000 (3.7E 13)
Neodymium-147	60	10 (3.7E 11)
Neodymium-149	60	100 (3.7E 12)
Neodymium-151	60	1000 (3.7E 13)
Neptunium-232	93	1000 (3.7E 13)
Neptunium-233	93	1000 (3.7E 13)
Neptunium-234	93	10 (3.7E 11)
Neptunium-235	93	1000 (3.7E 13)
Neptunium-236 (1.2 E 5 yr)	93	0.1 (3.7E 9)
Neptunium-236 (22.5 hr)	93	100 (3.7E 12)
Neptunium-237	93	0.01 (3.7E 8)
Neptunium-238	93	10 (3.7E 11)
Neptunium-239	93	100 (3.7E 12)
Neptunium-240	93	100 (3.7E 12)
Nickel-56	28	10 (3.7E 11)
Nickel-57	28	10 (3.7E 11)
Nickel-59	28	100 (3.7E 12)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Nickel-63	28	100 (3.7E 12)
Nickel-65	28	100 (3.7E 12)
Nickel-66	28	10 (3.7E 11)
Niobium-88	41	100 (3.7E 12)
Niobium-89 (66 min)	41	100 (3.7E 12)
Niobium-89 (122 min)	41	100 (3.7E 12)
Niobium-90	41	10 (3.7E 11)
Niobium-93m	41	100 (3.7E 12)
Niobium-94	41	10 (3.7E 11)
Niobium-95m	41	100 (3.7E 12)
Niobium-95	41	10 (3.7E 11)
Niobium-96	41	10 (3.7E 11)
Niobium-97	41	100 (3.7E 12)
Niobium-98	41	1000 (3.7E 13)
Osmium-180	76	1000 (3.7E 13)
Osmium-181	76	100 (3.7E 12)
Osmium-182	76	100 (3.7E 12)
Osmium-185	76	10 (3.7E 11)
Osmium-189m	76	1000 (3.7E 13)
Osmium-191m	76	1000 (3.7E 13)
Osmium-191	76	100 (3.7E 12)
Osmium-193	76	100 (3.7E 12)
Osmium-194	76	1 (3.7E 10)
Palladium-100	46	100 (3.7E 12)
Palladium-101	46	100 (3.7E 12)
Palladium-103	46	100 (3.7E 12)
Palladium-107	46	100 (3.7E 12)
Palladium-109	46	1000 (3.7E 13)
Phosphorus-32	15	0.1 (3.7E 9)
Phosphorus-33	15	1 (3.7E 10)
Platinum-186	78	100 (3.7E 12)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Platinum-188	78	100 (3.7E 12)
Platinum-189	78	100 (3.7E 12)
Platinum-191	78	100 (3.7E 12)
Platinum-193m	78	100 (3.7E 12)
Platinum-193	78	1000 (3.7E 13)
Platinum-195m	78	100 (3.7E 12)
Platinum-197m	78	1000 (3.7E 13)
Platinum-197	78	1000 (3.7E 13)
Platinum-199	78	1000 (3.7E 13)
Platinum-200	78	100 (3.7E 12)
Plutonium-234	94	1000 (3.7E 13)
Plutonium-235	94	1000 (3.7E 13)
Plutonium-236	94	0.1 (3.7E 9)
Plutonium-237	94	1000 (3.7E 13)
Plutonium-238	94	0.01 (3.7E 8)
Plutonium-239	94	0.01 (3.7E 8)
Plutonium-240	94	0.01 (3.7E 8)
Plutonium-241	94	1 (3.7E 10)
Plutonium-242	94	0.01 (3.7E 8)
Plutonium-243	94	1000 (3.7E 13)
Plutonium-244	94	0.01 (3.7E 8)
Plutonium-245	94	100 (3.7E 12)
Polonium-203	84	100 (3.7E 12)
Polonium-205	84	100 (3.7E 12)
Polonium-207	84	10 (3.7E 11)
Polonium-210	84	0.01 (3.7E 8)
Potassium-40	19	1 (3.7E 10)
Potassium-42	19	100 (3.7E 12)
Potassium-43	19	10 (3.7E 11)
Potassium-44	19	100 (3.7E 12)
Potassium-45	19	1000 (3.7E 13)
Praseodymium-136	59	1000 (3.7E 13)
Praseodymium-137	59	1000 (3.7E 13)
Praseodymium-138m	59	100 (3.7E 12)
Praseodymium-139	59	1000 (3.7E 13)
Praseodymium-142m	59	1000 (3.7E 13)
Praseodymium-142	59	100 (3.7E 12)
Praseodymium-143	59	10 (3.7E 11)
Praseodymium-144	59	1000 (3.7E 13)
Praseodymium-145	59	1000 (3.7E 13)
Praseodymium-147	59	1000 (3.7E 13)
Promethium-141	61	1000 (3.7E 13)
Promethium-143	61	100 (3.7E 12)
Promethium-144	61	10 (3.7E 11)
Promethium-145	61	100 (3.7E 12)
Promethium-146	61	10 (3.7E 11)
Promethium-147	61	10 (3.7E 11)
Promethium-148m	61	10 (3.7E 11)
Promethium-148	61	10 (3.7E 11)
Promethium-149	61	100 (3.7E 12)
Promethium-150	61	100 (3.7E 12)
Promethium-151	61	100 (3.7E 12)
Protactinium-227	91	100 (3.7E 12)
Protactinium-228	91	10 (3.7E 11)
Protactinium-230	91	10 (3.7E 11)
Protactinium-231	91	0.01 (3.7E 8)
Protactinium-232	91	10 (3.7E 11)
Protactinium-233	91	100 (3.7E 12)

APPENDIX B RADIONUCLIDES LISTED UNDER CERCLA

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Protactinium-234	91	10 (3.7E 11)
Radium-223	88	1 (3.7E 10)
Radium-224	88	10 (3.7E 11)
Radium-225	88	1 (3.7E 10)
Radium-226Φ	88	0.1 (3.7E 9)
Radium-227	88	1000 (3.7E 13)
Radium-228	88	0.1 (3.7E 9)
Radon-220	86	0.1 (3.7E 9)
Radon-222	86	0.1 (3.7E 9)
Rhenium-177	75	1000 (3.7E 13)
Rhenium-178	75	1000 (3.7E 13)
Rhenium-181	75	100 (3.7E 12)
Rhenium-182 (12.7 hr)	75	10 (3.7E 11)
Rhenium-182 (64.0 hr)	75	10 (3.7E 11)
Rhenium-184m	75	10 (3.7E 11)
Rhenium-184	75	10 (3.7E 11)
Rhenium-186m	75	10 (3.7E 11)
Rhenium-186	75	100 (3.7E 12)
Rhenium-187	75	1000 (3.7E 13)
Rhenium-188m	75	1000 (3.7E 13)
Rhenium-188	75	1000 (3.7E 13)
Rhenium-189	75	1000 (3.7E 13)
Rhodium-99m	45	100 (3.7E 12)
Rhodium-99	45	10 (3.7E 11)
Rhodium-100	45	10 (3.7E 11)
Rhodium-101m	45	100 (3.7E 12)
Rhodium-101	45	10 (3.7E 11)
Rhodium-102m	45	10 (3.7E 11)
Rhodium-102	45	10 (3.7E 11)
Rhodium-103m	45	1000 (3.7E 13)
Rhodium-105	45	100 (3.7E 12)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Rhodium-106m	45	10 (3.7E 11)
Rhodium-107	45	1000 (3.7E 13)
Rubidium-79	37	1000 (3.7E 13)
Rubidium-81m	37	1000 (3.7E 13)
Rubidium-81	37	100 (3.7E 12)
Rubidium-82m	37	10 (3.7E 11)
Rubidium-83	37	10 (3.7E 11)
Rubidium-84	37	10 (3.7E 11)
Rubidium-86	37	10 (3.7E 11)
Rubidium-88	37	1000 (3.7E 13)
Rubidium-89	37	1000 (3.7E 13)
Rubidium-87	37	10 (3.7E 11)
Ruthenium-94	44	1000 (3.7E 13)
Ruthenium-97	44	100 (3.7E 12)
Ruthenium-103	44	10 (3.7E 11)
Ruthenium-105	44	100 (3.7E 12)
Ruthenium-106	44	1 (3.7E 10)
Samarium-141m	62	1000 (3.7E 13)
Samarium-141	62	1000 (3.7E 13)
Samarium-142	62	1000 (3.7E 13)
Samarium-145	62	100 (3.7E 12)
Samarium-146	62	0.01 (3.7E 8)
Samarium-147	62	0.01 (3.7E 8)
Samarium-151	62	10 (3.7E 11)
Samarium-153	62	100 (3.7E 12)
Samarium-155	62	1000 (3.7E 13)
Samarium-156	62	100 (3.7E 12)
Scandium-43	21	1000 (3.7E 13)
Scandium-44m	21	10 (3.7E 11)
Scandium-44	21	100 (3.7E 12)
Scandium-46	21	10 (3.7E 11)
Scandium-47	21	100 (3.7E 12)

APPENDIX B RADIONUCLIDES LISTED UNDER CERCLA

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Scandium-48	21	10 (3.7E 11)
Scandium-49	21	1000 (3.7E 13)
Selenium-70	34	1000 (3.7E 13)
Selenium-73m	34	100 (3.7E 12)
Selenium-73	34	10 (3.7E 11)
Selenium-75	34	10 (3.7E 11)
Selenium-79	34	10 (3.7E 11)
Selenium-81m	34	1000 (3.7E 13)
Selenium-81	34	1000 (3.7E 13)
Selenium-83	34	1000 (3.7E 13)
Silicon-31	14	1000 (3.7E 13)
Silicon-32	14	1 (3.7E 10)
Silver-102	47	100 (3.7E 12)
Silver-103	47	1000 (3.7E 13)
Silver-104m	47	1000 (3.7E 13)
Silver-104	47	1000 (3.7E 13)
Silver-105	47	10 (3.7E 11)
Silver-106m	47	10 (3.7E 11)
Silver-106	47	1000 (3.7E 13)
Silver-108m	47	10 (3.7E 11)
Silver-110m	47	10 (3.7E 11)
Silver-111	47	10 (3.7E 11)
Silver-112	47	100 (3.7E 12)
Silver-115	47	1000 (3.7E 13)
Sodium-22	11	10 (3.7E 11)
Sodium-24	11	10 (3.7E 11)
Strontium-80	38	100 (3.7E 12)
Strontium-81	38	1000 (3.7E 13)
Strontium-83	38	100 (3.7E 12)
Strontium-85m	38	1000 (3.7E 13)
Strontium-85	38	10 (3.7E 11)
Strontium-87m	38	100 (3.7E 12)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Strontium-89	38	10 (3.7E 11)
Strontium-90	38	0.1 (3.7E 9)
Strontium-91	38	10 (3.7E 11)
Strontium-92	38	100 (3.7E 12)
Sulfur-35	16	1 (3.7E 10)
Tantalum-172	73	100 (3.7E 12)
Tantalum-173	73	100 (3.7E 12)
Tantalum-174	73	100 (3.7E 12)
Tantalum-175	73	100 (3.7E 12)
Tantalum-176	73	10 (3.7E 11)
Tantalum-177	73	1000 (3.7E 13)
Tantalum-178	73	1000 (3.7E 13)
Tantalum-179	73	1000 (3.7E 13)
Tantalum-180m	73	1000 (3.7E 13)
Tantalum-180	73	100 (3.7E 12)
Tantalum-182m	73	1000 (3.7E 13)
Tantalum-182	73	10 (3.7E 11)
Tantalum-183	73	100 (3.7E 12)
Tantalum-184	73	10 (3.7E 11)
Tantalum-185	73	1000 (3.7E 13)
Tantalum-186	73	1000 (3.7E 13)
Technetium-93m	43	1000 (3.7E 13)
Technetium-93	43	100 (3.7E 12)
Technetium-94m	43	100 (3.7E 12)
Technetium-94	43	10 (3.7E 11)
Technetium-96m	43	1000 (3.7E 13)
Technetium-96	43	10 (3.7E 11)
Technetium-97m	43	100 (3.7E 12)
Technetium-97	43	100 (3.7E 12)
Technetium-98	43	10 (3.7E 11)
Technetium-99m	43	100 (3.7E 12)
Technetium-99	43	10 (3.7E 11)

APPENDIX B RADIONUCLIDES LISTED UNDER CERCLA

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Technetium-101	43	1000 (3.7E 13)
Technetium-104	43	1000 (3.7E 13)
Tellurium-116	52	1000 (3.7E 13)
Tellurium-121m	52	10 (3.7E 11)
Tellurium-121	52	10 (3.7E 11)
Tellurium-123m	52	10 (3.7E 11)
Tellurium-123	52	10 (3.7E 11)
Tellurium-125m	52	10 (3.7E 11)
Tellurium-127m	52	10 (3.7E 11)
Tellurium-127	52	1000 (3.7E 13)
Tellurium-129m	52	10 (3.7E 11)
Tellurium-129	52	1000 (3.7E 13)
Tellurium-131m	52	10 (3.7E 11)
Tellurium-131	52	1000 (3.7E 13)
Tellurium-132	52	10 (3.7E 11)
Tellurium-133m	52	1000 (3.7E 13)
Tellurium-133	52	1000 (3.7E 13)
Tellurium-134	52	1000 (3.7E 13)
Terbium-147	65	100 (3.7E 12)
Terbium-149	65	100 (3.7E 12)
Terbium-150	65	100 (3.7E 12)
Terbium-151	65	10 (3.7E 11)
Terbium-153	65	100 (3.7E 12)
Terbium-154	65	10 (3.7E 11)
Terbium-155	65	100 (3.7E 12)
Terbium-156m (5.0 hr)	65	1000 (3.7E 13)
Terbium-156m (24.4 hr)	65	1000 (3.7E 13)
Terbium-156	65	10 (3.7E 11)
Terbium-157	65	100 (3.7E 12)
Terbium-158	65	10 (3.7E 11)
Terbium-160	65	10 (3.7E 11)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Terbium-161	65	100 (3.7E 12)
Thallium-194m	81	100 (3.7E 12)
Thallium-194	81	1000 (3.7E 13)
Thallium-195	81	100 (3.7E 12)
Thallium-197	81	100 (3.7E 12)
Thallium-198m	81	100 (3.7E 12)
Thallium-198	81	10 (3.7E 11)
Thallium-199	81	100 (3.7E 12)
Thallium-200	81	10 (3.7E 11)
Thallium-201	81	1000 (3.7E 13)
Thallium-202	81	10 (3.7E 11)
Thallium-204	81	10 (3.7E 11)
Thorium-226	90	100 (3.7E 12)
Thorium-227	90	1 (3.7E 10)
Thorium-228	90	0.01 (3.7E 8)
Thorium-229	90	0.001 (3.7E 7)
Thorium-230	90	0.01 (3.7E 8)
Thorium-231	90	100 (3.7E 12)
Thorium-232Φ	90	0.001 (3.7E 7)
Thorium-234	90	100 (3.7E 12)
Thulium-162	69	1000 (3.7E 13)
Thulium-166	69	10 (3.7E 11)
Thulium-167	69	100 (3.7E 12)
Thulium-170	69	10 (3.7E 11)
Thulium-171	69	100 (3.7E 12)
Thulium-172	69	100 (3.7E 12)
Thulium-173	69	100 (3.7E 12)
Thulium-175	69	1000 (3.7E 13)
Tin-110	50	100 (3.7E 12)
Tin-111	50	1000 (3.7E 13)
Tin-113	50	10 (3.7E 11)
Tin-117m	50	100 (3.7E 12)

APPENDIX B RADIONUCLIDES LISTED UNDER CERCLA

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Tin-119m	50	10 (3.7E 11)
Tin-121m	50	10 (3.7E 11)
Tin-121	50	1000 (3.7E 13)
Tin-123m	50	1000 (3.7E 13)
Tin-123	50	10 (3.7E 11)
Tin-125	50	10 (3.7E 11)
Tin-126	50	1 (3.7E 10)
Tin-127	50	100 (3.7E 12)
Tin-128	50	1000 (3.7E 13)
Titanium-44	22	1 (3.7E 10)
Titanium-45	22	1000 (3.7E 13)
Tungsten-176	74	1000 (3.7E 13)
Tungsten-177	74	100 (3.7E 12)
Tungsten-178	74	100 (3.7E 12)
Tungsten-179	74	1000 (3.7E 13)
Tungsten-181	74	100 (3.7E 12)
Tungsten-185	74	10 (3.7E 11)
Tungsten-187	74	100 (3.7E 12)
Tungsten-188	74	10 (3.7E 11)
Uranium-230	92	1 (3.7E 10)
Uranium-231	92	1000 (3.7E 13)
Uranium-232	92	0.01 (3.7E 8)
Uranium-233	92	0.1 (3.7E 9)
Uranium-234φ	92	0.1 (3.7E 9)
Uranium-235φ	92	0.1 (3.7E 9)
Uranium-236	92	0.1 (3.7E 9)
Uranium-237	92	100 (3.7E 12)
Uranium-238φ	92	0.1& (3.7E 9)
Uranium-239	92	1000 (3.7E 13)
Uranium-240	92	1000 (3.7E 13)
Vanadium-47	23	1000 (3.7E 13)
Vanadium-48	23	10 (3.7E 11)
Vanadium-49	23	1000 (3.7E 13)
Xenon-120	54	100 (3.7E 12)
Xenon-121	54	10 (3.7E 11)
Xenon-122	54	100 (3.7E 12)
Xenon-123	54	10 (3.7E 11)
Xenon-125	54	100 (3.7E 12)
Xenon-127	54	100 (3.7E 12)
Xenon-129m	54	1000 (3.7E 13)
Xenon-131m	54	1000 (3.7E 13)
Xenon-133m	54	1000 (3.7E 13)
Xenon-133	54	1000 (3.7E 13)
Xenon-135m	54	10 (3.7E 11)
Xenon-135	54	100 (3.7E 12)
Xenon-138	54	10 (3.7E 11)
Ytterbium-162	70	1000 (3.7E 13)
Ytterbium-166	70	10 (3.7E 11)
Ytterbium-167	70	1000 (3.7E 13)
Ytterbium-169	70	10 (3.7E 11)
Ytterbium-175	70	100 (3.7E 12)
Ytterbium-177	70	1000 (3.7E 13)
Ytterbium-178	70	1000 (3.7E 13)
Yttrium-86m	39	1000 (3.7E 13)
Yttrium-86	39	10 (3.7E 11)
Yttrium-87	39	10 (3.7E 11)
Yttrium-88	39	10 (3.7E 11)
Yttrium-90m	39	100 (3.7E 12)
Yttrium-90	39	10 (3.7E 11)
Yttrium-91m	39	1000 (3.7E 13)
Yttrium-91	39	10 (3.7E 11)
Yttrium-92	39	100 (3.7E 12)
Yttrium-93	39	100 (3.7E 12)
Yttrium-94	39	1000 (3.7E 13)

Radionuclide Name	Atomic Number	Final RQ Curies (Bq)
Yttrium-95	39	1000 (3.7E 13)
Zinc-62	30	100 (3.7E 12)
Zinc-63	30	1000 (3.7E 13)
Zinc-65	30	10 (3.7E 11)
Zinc-69m	30	100 (3.7E 12)
Zinc-69	30	1000 (3.7E 13)
Zinc-71m	30	100 (3.7E 12)
Zinc-72	30	100 (3.7E 12)
Zirconium-86	40	100 (3.7E 12)
Zirconium-88	40	10 (3.7E 11)
Zirconium-89	40	100 (3.7E 12)
Zirconium-93	40	1 (3.7E 10)
Zirconium-95	40	10 (3.7E 11)
Zirconium-97	40	10 (3.7E 11)

NOTES:

Ci—Curie. The curie represents a rate of radioactive decay. One curie is the quantity of any radioactive nuclide which undergoes 3.7E 10 disintegrations per second.

Bq—Becquerel. The becquerel represents a rate of radioactive decay. One becquerel is the quantity of any radioactive nuclide which undergoes one disintegration per second. One curie is equal to 3.7E 10 becquerel.

@—Final RQs for all radionuclides apply to chemical compounds containing the radionuclides and elemental forms regardless of the diameter of pieces of solid material.

&—The adjusted RQ of one curie applies to all radionuclides not otherwise listed. Whenever the RQs in the Consolidated List of Chemicals subject to EPCRA, CERCLA and Section 112(r) of CAA and this Appendix B are in conflict, the lowest RQ shall apply. For example, uranyl acetate and uranyl nitrate have adjusted RQs shown in the CAS number ordered chemical list and the alphabetical chemical list (Appendix A) of 100 pounds, equivalent to about one-tenth the RQ level for uranium-238 listed in this appendix.

E—Exponent to the base 10. For example, 1.3E 2 is equal to 130 while 1.3E 3 is equal to 1300.

m—Signifies a nuclear isomer which is a radionuclide in a higher energy metastable state relative to the parent isotope.

φ—Notification requirements for releases of mixtures or solutions of radionuclides can be found in 40 CFR §302.6(b)(2). Final RQs for the following four common radionuclide mixtures are provided: radium-226 in secular equilibrium with its daughters (0.053 curie); natural uranium (0.1 curie); natural uranium in secular equilibrium with its daughters (0.052 curie); and natural thorium in secular equilibrium with its daughters (0.011 curie).

APPENDIX C

**THE LIST BELOW CONTAINS RCRA WASTE STREAMS AND UNLISTED HAZARDOUS WASTES.
THE DESCRIPTIONS OF THE WASTE STREAMS HAVE BEEN TRUNCATED.
THE LIST SHOULD BE USED FOR REFERENCE ONLY.
COMPLIANCE INFORMATION CAN BE FOUND IN 40 CFR PART 302 AND TABLE 302.4**

RCRA CODE	RQ	NAME
F001	10	The following spent halogenated solvents used in degreasing:
	100	(a) Tetrachloroethylene (CAS No. 127-18-4, RCRA Waste No. U210)
	100	(b) Trichloroethylene (CAS No. 79-01-6, RCRA Waste No. U228)
	1,000	(c) Methylene chloride (CAS No. 75-09-2, RCRA Waste No. U080)
	1,000	(d) 1,1,1-Trichloroethane (CAS No. 71-55-6, RCRA Waste No. U226)
	10	(e) Carbon tetrachloride (CAS No. 56-23-5, RCRA Waste No. U211)
	5,000	(f) Chlorinated fluorocarbons
F002	10	The following spent halogenated solvents:
	100	(a) Tetrachloroethylene (CAS No. 127-18-4, RCRA Waste No. U210)
	1,000	(b) Methylene chloride (CAS No. 75-09-2, RCRA Waste No. U080)
	100	(c) Trichloroethylene (CAS No. 79-01-6, RCRA Waste No. U228)
	1,000	(d) 1,1,1-Trichloroethane (CAS No. 71-55-6, RCRA Waste No. U226)
	100	(e) Chlorobenzene (CAS No. 108-90-7, RCRA Waste No. U037)
	5,000	(f) 1,1,2-Trichloro-1,2,2-trifluoroethane (CAS No. 76-13-1)
	100	(g) o-Dichlorobenzene (CAS No. 95-50-1, RCRA Waste No. U070)
	5,000	(h) Trichlorofluoromethane (CAS No. 75-69-4, RCRA Waste No. U121)
	100	(i) 1,1,2-Trichloroethane (CAS No. 79-00-5, RCRA Waste No. U227)
F003	100	The following spent non-halogenated solvents and still bottoms from recovery:
	1,000	(a) Xylene (CAS No. 1330-20-7, RCRA Waste No. U239)
	5,000	(b) Acetone (CAS No. 67-64-1, RCRA Waste No. U002)
	5,000	(c) Ethyl acetate (CAS No. 141-78-6, RCRA Waste No. U112)
	1,000	(d) Ethylbenzene (CAS No. 100-41-4)
	100	(e) Ethyl ether (CAS No. 60-29-7, RCRA Waste No. U117)
	5,000	(f) Methyl isobutyl ketone (CAS No. 108-10-1, RCRA Waste No. U161)
	5,000	(g) n-Butyl alcohol (CAS No. 71-36-3, RCRA Waste No. U031)
	5,000	(h) Cyclohexanone (CAS No. 108-94-1, RCRA Waste No. U057)
	5,000	(i) Methanol (CAS No. 67-56-1, RCRA Waste No. U154)
F004	100	The following spent non-halogenated solvents and still bottoms from recovery:
	100	(a) Cresols/cresylic acid (CAS No. 1319-77-3, RCRA Waste No. U052)
	1,000	(b) Nitrobenzene (CAS No. 98-95-3, RCRA Waste No. U169)
F005	100	The following spent non-halogenated solvents and still bottoms from recovery:
	1,000	(a) Toluene (CAS No. 108-88-3, RCRA Waste No. U220)
	5,000	(b) Methyl ethyl ketone (CAS No. 78-93-3, RCRA Waste No. U159)
	100	(c) Carbon disulfide (CAS No. 75-15-0, RCRA Waste No. P022)

RCRA CODE	RQ	NAME
	5,000	(d) Isobutanol (CAS No. 78-83-1, RCRA Waste No. U140)
	1,000	(e) Pyridine (CAS No. 110-86-1, RCRA Waste No. U196)
F006	10	Wastewater treatment sludges from electroplating operations (w/some exceptions)
F007	10	Spent cyanide plating bath solns. from electroplating
F008	10	Plating bath residues from electroplating where cyanides are used
F009	10	Spent stripping/cleaning bath solns. from electroplating where cyanides are used
F010	10	Quenching bath residues from metal heat treating where cyanides are used
F011	10	Spent cyanide soln. from salt bath pot cleaning from metal heat treating
F012	10	Quenching wastewater sludges from metal heat treating where cyanides are used
F019	10	Wastewater treatment sludges from chemical conversion aluminum coating
F020	1	Wastes from production or use of tri/tetrachlorophenol or derivative intermediates
F021	1	Wastes from production or use of pentachlorophenol or intermediates for derivatives
F022	1	Wastes from use of tetra/penta/hexachlorobenzenes under alkaline conditions
F023	1	Wastes from mat. production on equipment previously used for tri\tetrachlorophenol
F024	1	Wastes from production of chlorinated aliphatic hydrocarbons (C1-C5)
F025	1	Lights ends, filters from production of chlorinated aliphatic hydrocarbons (C1-C5)
F026	1	Waste from equipment previously used to production tetra/penta/hexachlorobenzenes
F027	1	Discarded formulations containing tri/tetra/pentachlorophenols or derivatives
F028	1	Residues from incineration of soil contaminated w/ F020,F021,F022,F023,F026,F027
F032	1	Wastewaters, process residuals from wood preserving using chlorophenolic solns.
F034	1	Wastewaters, process residuals from wood preserving using creosote formulations
F035	1	Wastewaters, process residuals from wood preserving using arsenic or chromium
F037	1	Petroleum refinery primary oil/water/solids separation sludge
F038	1	Petroleum refinery secondary (emulsified) oil/water/solids separation sludge
F039	1	Multisource leachate
K001	1	Wastewater treatment sludge from creosote/pentachlorophenol wood preserving
K002	10	Wastewater treatment sludge from production of chrome yellow and orange pigments
K003	10	Wastewater treatment sludge from production of molybdate orange pigments
K004	10	Wastewater treatment sludge from production of zinc yellow pigments
K005	10	Wastewater treatment sludge from production of chrome green pigments
K006	10	Wastewater treatment sludge from production of chrome oxide green pigments
K007	10	Wastewater treatment sludge from production of iron blue pigments
K008	10	Oven residue from production of chrome oxide green pigments
K009	10	Dist. bottoms from production of acetaldehyde from ethylene
K010	10	Dist. side cuts from production of acetaldehyde from ethylene
K011	10	Bottom stream from wastewater stripper in acrylonitrile production
K013	10	Bottom stream from acetonitrile column in acrylonitrile production
K014	5,000	Bottoms from acetonitrile purification column in acrylonitrile production
K015	10	Still bottoms from the dist. of benzyl chloride
K016	1	Heavy ends or dist. residues from production of carbon tetrachloride
K017	10	Heavy ends from the purification column in epichlorohydrin production
K018	1	Heavy ends from the fractionation column in ethyl chloride production

RCRA CODE	RQ	NAME
K019	1	Heavy ends from the dist. of ethylene dichloride during its production
K020	1	Heavy ends from the dist. of vinyl chloride during production of the monomer
K021	10	Aqueous spent antimony catalyst waste from fluoromethanes production
K022	1	Dist. bottom tars from production of phenol/acetone from cumene
K023	5,000	Dist. light ends from production of phthalic anhydride from naphthalene
K024	5,000	Dist. bottoms from production of phthalic anhydride from naphthalene
K025	10	Dist. bottoms from production of nitrobenzene by nitration of benzene
K026	1,000	Stripping still tails from the production of methyl ethyl pyridines
K027	10	Centrifuge/dist. residues from toluene diisocyanate production
K028	1	Spent catalyst from hydrochlorinator reactor in production of 1,1,1-trichloroethane
K029	1	Waste from product steam stripper in production of 1,1,1-trichloroethane
K030	1	Column bottoms/heavy ends from production of trichloroethylene and perchloroethylene
K031	1	By-product salts generated in the production of MSMA and cacodylic acid
K032	10	Wastewater treatment sludge from the production of chlordane
K033	10	Wastewaster/scrubwater from chlorination of cyclopentadiene in chlordane production
K034	10	Filter solids from filtration of hexachlorocyclopentadiene in chlordane production
K035	1	Wastewater treatment sludges from the production of creosote
K036	1	Still bottoms from toluene reclamation distillation in disulfoton production
K037	1	Wastewater treatment sludges from the production of disulfoton
K038	10	Wastewater from the washing and stripping of phorate production
K039	10	Filter cake from filtration of diethylphosphorodithioic adid in phorate production
K040	10	Wastewater treatment sludge from the production of phorate
K041	1	Wastewater treatment sludge from the production of toxaphene
K042	10	Heavy ends/residues from dist. of tetrachlorobenzene in 2,4,5-T production
K043	10	2,6-Dichlorophenol waste from the production of 2,4-D
K044	10	Wastewater treatment sludge from manuf. and processing of explosives
K045	10	Spent carbon from treatment of wastewater containing explosives
K046	10	Wastewater sludge from manuf., formulating, loading of lead-based initiating compd
K047	10	Pink/red water from TNT operations
K048	10	Dissolved air flotation (DAF) float from the petroleum refining industry
K049	10	Slop oil emulsion solids from the petroleum refining industry
K050	10	Heat exchanger bundle cleaning sludge from petroleum refining industry
K051	10	API separator sludge from the petroleum refining industry
K052	10	Tank bottoms (leaded) from the petroleum refining industry
K060	1	Ammonia still lime sludge from coking operations
K061	10	Emission control dust/sludge from primary production of steel in electric furnaces
K062	10	Spent pickle liquor generated by steel finishing (SIC codes 331 and 332)
K064	10	Acid plant blowdown slurry/sludge from blowdown slurry from primary copper production
K065	10	Surface impoundment solids at primary lead smelting facilities
K066	10	Sludge from treatment of wastewater/acid plant blowdown from primary zinc production
K069	10	Emission control dust/sludge from secondary lead smelting
K071	1	Brine purification muds from mercury cell process in chlorine production

RCRA CODE	RQ	NAME
K073	10	Chlorinated hydrocarbon waste from diaphragm cell process in chlorine production
K083	100	Distillation bottoms from aniline extraction
K084	1	Wastewater sludges from production of veterinary pharm. from arsenic compds.
K085	10	Distillation or fractionation column bottoms in production of chlorobenzenes
K086	10	Wastes/sludges from production of inks from chromium and lead-containing substances
K087	100	Decanter tank tar sludge from coking operations
K088	10	Spent potliners from primary aluminum reduction
K090	10	Emission control dust/sludge from ferrochromiumsilicon production
K091	10	Emission control dust/sludge from ferrochromium production
K093	5,000	Dist. light ends from production of phthalic anhydride by ortho-xylene
K094	5,000	Dist. bottoms in production of phthalic anhydride by ortho-xylene
K095	100	Distillation bottoms in production of 1,1,1-trichloroethane
K096	100	Heavy ends from dist. column in production of 1,1,1-trichloroethane
K097	1	Vacuum stripper discharge from the chlordane chlorinator in production of chlordane
K098	1	Untreated process wastewater from the production of toxaphene
K099	10	Untreated wastewater from the production of 2,4-D
K100	10	Waste leaching soln from emission control dust/sludge in secondary lead smelting
K101	1	Dist. tar residue from aniline in production of veterinary pharm. from arsenic compd.
K102	1	Residue from activated carbon in production of veterinary pharm. from arsenic compds.
K103	100	Process residues from aniline extraction from the production of aniline
K104	10	Combined wastewater streams generated from production of nitrobenzene/aniline
K105	10	Aqueous stream from washing in production of chlorobenzenes
K106	1	Wastewater treatment sludge from mercury cell process in chlorine production
K107	10	Column bottoms from separation in production of UDMH from carboxylic acid hydrazides
K108	10	Condensed column overheads and vent gas from production of UDMH from -COOH hydrazides
K109	10	Spent filter cartridges from purif. of UDMH production from carboxylic acid hydrazides
K110	10	Condensed column overheads from separation in UDMH production from -COOH hydrazides
K111	10	Product washwaters from production of dinitrotoluene via nitration of toluene
K112	10	Reaction by-product water from drying in toluenediamine prod from dinitrotoluene
K113	10	Condensed liquid light ends from purification of toluenediamine during its production
K114	10	Vicinals from purification of toluenediamine during its production from dinitrotoluene
K115	10	Heavy ends from toluenediamine purification during production from dinitrotoluene
K116	10	Organic condensate from solvent recovery system in production of toluene diisocyanate
K117	1	Wastewater from vent gas scrubber in ethylene bromide prod by ethene bromination
K118	1	Spent absorbent solids in purification of ethylene dibromide in its production
K123	10	Process wastewater from the production of ethylenebisdithiocarbamic acid and salts
K124	10	Reactor vent scrubber water from prod of ethylenebisdithiocarbamic acid and salts
K125	10	Filtration/other solids from production of ethylenebisdithiocarbamic acid and salts
K126	10	Dust/sweepings from the production of ethylenebisdithiocarbamic acid and salts
K131	100	Wastewater and spent sulfuric acid from the production of methyl bromide
K132	1,000	Spent absorbent and wastewater solids from the production of methyl bromide

RCRA CODE	RQ	NAME
K136	1	Still bottoms from ethylene dibromide purif. in production by ethene bromination
K141	1	Process residues from coal tar recovery in coking
K142	1	Tar storage tank residues from coke production from coal or recovery of coke by-prods
K143	1	Process residues from recovery of light oil in coking
K144	1	Wastewater residues from light oil refining in coking
K145	1	Residues from naphthalene collection and recovery from coke by-products
K147	1	Tar storage tank residues from coal tar refining in coking
K148	1	Residues from coal tar distillation, including still bottoms, in coking
K149	10	Distillation bottoms from the production of chlorinated toluenes/benzoyl chlorides
K150	10	Organic residuals from Cl gas and HCl recovery from chlorinated toluene production
K151	10	Wastewater treatment sludge from production of chlorotoluenes/benzoyl chlorides
K156	10	Organic waste from production of carbamates and carbamoyl oximes
K157	10	Wastewaters from production of carbamates and carbamoyl oximes (not sludges)
K158	10	Bag house dusts & filter/separation solids from prod of carbamates, carb oximes
K159	10	Organics from treatment of thiocarbamate waste
K161	1	Purif. solids/bag house dust/sweepings from prod of dithiocarbamate acids/salts
K169	10	Crude oil storage tank sediment from refining operations
K170	1	Clarified slurry oil tank sediment of in-line filter/separation solids
K171	1	Spent hydrotreating catalyst
K172	1	Spent hydrorefining catalyst
K174	1	Wastewater treatment sludges from the production of ethylene dichloride or vinyl chloride monomer, (including sludges that result from commingled EDC or VCM wastewater and other wastewater), unless the sludges meet certain disposal conditions. (See 40 CFR 261.32)
K175	1	Wastewater treatment sludges from the production vinyl chloride monomer using mercuric chloride catalyst in an acetylene-based process (See 40 CFR 261.32)
K176	1	Baghouse filters from the production of antimony oxide, including filters from the production of intermediates (e.g., antimony metal or crude antimony oxide)
K177	5000	Slag from the production of antimony oxide that is speculatively accumulated or disposed, including slag from the production of intermediates (e.g., antimony metal or crude antimony oxide)
K178	1000	Residues from manufacturing and manufacturing-site storage of ferric chloride from acids formed during the production of titanium dioxide using the chloride-ilmenite process
K181	1*	Non-wastewaters generated from the production of certain dyes, pigments, and FD&C colorants, exceeding constituent mass loading levels, subject to disposal exceptions in 40 CFR 261.32
D001	100	Unlisted hazardous wastes characteristic of ignitability
D002	100	Unlisted hazardous wastes characteristic of corrosivity
D003	100	Unlisted hazardous wastes characteristic of reactivity
		Unlisted hazardous wastes characteristic of toxicity:
D004	1	Arsenic
D005	1,000	Barium
D006	10	Cadmium
D007	10	Chromium
D008	10	Lead
D009	1	Mercury

RCRA CODE	RQ	NAME
D010	10	Selenium
D011	1	Silver
D012	1	Endrin
D013	1	Lindane
D014	1	Methoxychlor
D015	1	Toxaphene
D016	100	2,4-D
D017	100	2,4,5-TP
D018	10	Benzene
D019	10	Carbon tetrachloride
D020	1	Chlordane
D021	100	Chlorobenzene
D022	10	Chloroform
D023	100	o-Cresol
D024	100	m-Cresol
D025	100	p-Cresol
D026	100	Cresol
D027	100	1,4-Dichlorobenzene
D028	100	1,2-Dichloroethane
D029	100	1,1-Dichloroethylene
D030	10	2,4-Dinitrotoluene
D031	1	Heptachlor (and epoxide)
D032	10	Hexachlorobenzene
D033	1	Hexachlorobutadiene
D034	100	Hexachloroethane
D035	5,000	Methyl ethyl ketone
D036	1,000	Nitrobenzene
D037	10	Pentachlorophenol
D038	1,000	Pyridine
D039	100	Tetrachloroethylene
D040	100	Trichloroethylene
D041	10	2,4,5-Trichlorophenol
D042	10	2,4,6-Trichlorophenol
D043	1	Vinyl chloride

APPENDIX D

EPCRA SECTION 313, TOXIC RELEASE INVENTORY (TRI) CHEMICAL CATEGORIES

Below are the definitions of the EPCRA Section 313, Toxic Release Inventory (TRI) chemical categories. Each chemical category is listed below with its category code and category name. This information is from *Table II. EPCRA Section 313 Chemical List – RY2011 Toxics Release Inventory Reporting Form and Instructions II-18 through II-21*. http://www.epa.gov/tri/report/rfi/ry2011rfi_v3.pdf Also see 40 CFR 372.65.

For more details on how to report TRI chemicals and chemical categories, see http://www.epa.gov/tri/report/index.htm EPA has more detailed chemical-specific guidance documents for the EPCRA Section 313 chemical categories on its Webpage http://www.epa.gov/tri/guide_docs/index.htm Documents are available for Lead and Lead Compounds, Mercury and Mercury Compounds, PACs, Dioxins, Nitrates, Glycol Ethers, Chlorophenols, EBDCs, Nicotine and Salts, Polychlorinated Alkanes, Strychine and Salts, and Warfarin and salts.

N010 Antimony Compounds *Includes any unique chemical substance that contains antimony as part of that chemical's infrastructure.*

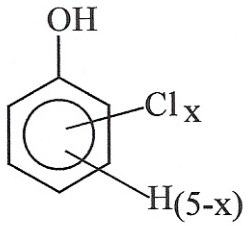
N020 Arsenic Compounds *Includes any unique chemical substance that contains arsenic as part of that chemical's infrastructure.*

N040 Barium Compounds *Includes any unique chemical substance that contains barium as part of that chemical's infrastructure. This category does not include: Barium sulfate CAS Number 7727-43-7*

N050 Beryllium Compounds *Includes any unique chemical substance that contains beryllium as part of that chemical's infrastructure.*

N078 Cadmium Compounds *Includes any unique chemical substance that contains cadmium as part of that chemical's infrastructure.*

N084 Chlorophenols *Includes any chemical substance with the following chemical formula:*



Where x = 1 to 5

N090 Chromium Compounds *Includes any unique chemical substance that contains chromium as part of that chemical's infrastructure* **(except for chromite ore mined in the Transvaal Region of South Africa and the unreacted ore component of the chromite ore processing residue (COPR). COPR is the solid waste remaining after aqueous extraction of oxidized chromite ore that has been combined with soda ash and kiln roasted at approximately 2,000 deg.F.)**

N096 Cobalt Compounds *Includes any unique chemical substance that contains cobalt as part of that chemical's infrastructure.*

N100 Copper Compounds *Includes any unique chemical substance that contains copper as part of that chemical's infrastructure. This category does not include copper phthalocyanine compounds that are substituted with only hydrogen, and/or chlorine, and/or bromine.*

N106 Cyanide Compounds *Includes any chemical substance with the following chemical formula:*

$X^+ CN^-$ *where* $X = H^+$ *or any other group where a formal dissociation can be made. For example* KCN *or* $Ca(CN)^2$.

N120 Diisocyanates *This category includes only those chemicals listed below.*

CAS Number	Diisocyanate Chemical Name
38661-72-2	1,3-Bis(methylisocyanate)-cyclohexane
10347-54-3	1,4-Bis(methylisocyanate)-cyclohexane
2556-36-7	1,4-Cyclohexanediisocyanate
134190-37-7	Diethyldiisocyanatobenzene
4128-73-8	4,4'-Diisocyanatodiphenyl ether
75790-87-3	2,4'-Diisocyanatodiphenyl sulfide
91-93-0	3,3'-Dimethoxybenzidine-4,4'-diisocyanate
91-97-4	3,3'-Dimethyl-4,4'-diphenylene diisocyanate
139-25-3	3,3'-Dimethyldiphenyl methane-4,4'-diisocyanate
822-06-0	Hexamethylene-1,6-diisocyanate
4098-71-9	Isophorone diisocyanate

75790-84-0	4-Methyldiphenylmethane-3,4-diisocyanate
5124-30-1	1,1-Methylenebis(4-isocyanatocyclohexane)
101-68-8	Methylenebis(phenylisocyanate) (MDI)
3173-72-6	1,5-Naphthalene diisocyanate
123-61-5	1,3-Phenylene diisocyanate
104-49-4	1,4-Phenylene diisocyanate
9016-87-9	Polymeric diphenylmethane diisocyanate
16938-22-0	2,2,4-Trimethylhexamethylenediisocyanate
15646-96-5	2,4,4-Trimethylhexamethylene diisocyanate

N150 Dioxin and Dioxin-Like Compounds
(Manufacturing; and the processing or otherwise use of dioxin and dioxin-like compounds if the dioxin and dioxin-like compounds are present as contaminants in a chemical and if they were created during the manufacturing of that chemical.) This category includes only those chemicals listed below.

CAS Number	**Dioxin Chemical Name**
1746-01-6	2,3,7,8- Tetrachlorodibenzo-*p*-dioxin
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-*p*-dioxin
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran

57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran
70648-26-9	1,2,3,4,7,8-Hexachlorod-benzofuran
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran
39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran

N171 Ethylenebisdithiocarbamic acid, salts and esters (EBDCs) *Includes any unique chemical substance that contains an EBDC or an EBDC salt as part of that chemical's infrastructure.*

N230 Certain Glycol Ethers *Includes any chemical substance with the following chemical formula:*

R-(OCH_2CH_2) n-OR'

where n = 1, 2, or 3
R = alkyl C7 or less; or
R = phenyl or alkyl substituted phenyl;
R' = H, or alkyl C7 or less; or
OR' = consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate.

N420 Lead Compounds *Includes any unique chemical substance that contains lead as part of that chemical's infrastructure.*

N450 Manganese Compounds *Includes any unique chemical substance that contains manganese as part of that chemical's infrastructure.*

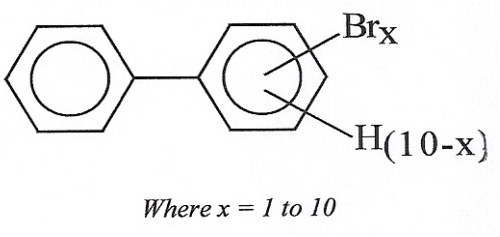
N458 Mercury Compounds *Includes any unique chemical substance that contains mercury as part of that chemical's infrastructure.*

N495 Nickel Compounds *Includes any unique chemical substance that contains nickel as part of that chemical's infrastructure.*

N503 Nicotine and salts *Includes any unique chemical substance that contains nicotine or a nicotine salt as part of that chemical's infrastructure.*

N511 Nitrate compounds (water dissociable; reportable only when in aqueous solution)

N575 Polybrominated Biphenyls (PBBs) *Includes any chemical substance with the following chemical formula:*



Where x = 1 to 10

N583 Polychlorinated alkanes (C10 to C13) (except for those members of the category that have an average chain length of 12 carbons and contain an average chlorine content of 60% by weight which are subject to the 0.1% *de minimis*). *Includes any chemical substance with the following chemical formula:*

$C_x H_{2x+2-y} Cl_y$
where x = 10 to 13;
y = 3 to 12; and
the average chlorine content ranges from 40-70% with the limiting molecular formulas $C_{10}H_{19}Cl_3$ and $C_{13}H_{16}Cl_{12}$.

N590 Polycyclic aromatic compounds (PACs) *This category includes the chemicals listed below.*

CAS Number	PAC Chemical Name
56-55-3	Benz(a)anthracene
205-99-2	Benzo(b)fluoranthene
205-82-3	Benzo(j)fluoranthene
207-08-9	Benzo(k)fluoranthene
206-44-0	Benzo(j,k)fluorene
189-55-9	Benzo(r,s,t)pentaphene
218-01-9	Benzo(a)phenanthrene
50-32-8	Benzo(a)pyrene

226-36-8	Dibenz(a,h)acridine
224-42-0	Dibenz(a,j)acridine
53-70-3	Dibenzo(a,h)anthracene
194-59-2	7H-Dibenzo(c,g)carbazole
5385-75-1	Dibenzo(a,e)fluoranthene
192-65-4	Dibenzo(a,e)pyrene
189-64-0	Dibenzo(a,h)pyrene
191-30-0	Dibenzo(a,l)pyrene
57-97-6	7,12-Dimethylbenz(a)-anthracene
42397-64-8	1,6-Dinitropyrene
42397-65-9	1,8-Dinitropyrene
193-39-5	Indeno(1,2,3-cd)pyrene
56-49-5	3-Methylcholanthrene
3697-24-3	5-Methylchrysene
7496-02-8	6-Nitrochrysene
5522-43-0	1-Nitropyrene
57835-92-4	4-Nitropyrene

N725 Selenium Compounds *Includes any unique chemical substance that contains selenium as part of that chemical's infrastructure.*

N740 Silver Compounds *Includes any unique chemical substance that contains silver as part of that chemical's infrastructure.*

N746 Strychnine and salts *Includes any unique chemical substance that contains strychnine or a strychnine salt as part of that chemical's infrastructure.*

N760 Thallium Compounds *Includes any unique chemical substance that contains thallium as part of that chemical's infrastructure.*

N770 Vanadium Compounds *Includes any unique chemical substance that contains vanadium*

as part of that chemical's infrastructure.

N874 Warfarin and salts *Includes any unique chemical substance that contains warfarin or a warfarin salt as part of that chemical's infrastructure.*

N982 Zinc Compounds *Includes any unique chemical substance that contains zinc as part of that chemical's infrastructure.*

N874 Warfarin and salts *Includes any unique chemical substance that contains warfarin or a warfarin salt as part of that chemical's infrastructure.*

N982 Zinc Compounds *Includes any unique chemical substance that contains zinc as part of that chemical's infrastructure.*

APPENDIX E

CERCLA Hazardous Substances- Chemical Categories

This Appendix provides further definition or clarification, where available, of CERCLA chemical categories that are listed with N.A. as the CAS Registry Number in the consolidated list. Dichlorobenzidine and diphenylhydrazine are also included in this Appendix for completeness sake because they are listed on the consolidated list with CAS No. of N.A., although technically each is not considered a category containing several chemical substances. Radionuclides listed under CERCLA are provided in a separate list in Appendix B of this document, with RQs in Curies. EPCRA section 313 (TRI) Chemical Category definitions are found in Appendix C. Each CERCLA chemical category in this Appendix was designated as a CERCLA hazardous substance based on a statutory source (See NOTE following 40 CFR 302.4 (b)). Statutory Code (1), (2), (3), or (4), shown after each category name, refers to a statutory source, which is listed at the end of this Appendix. Other numbers in parenthesis are reference codes for the source of information used to define or clarify the category. These references appear at the end of the Appendix. Many chemicals that are also members of a category may also be listed separately as a CERCLA chemical with its own RQ. For example, cobaltous bromide, CAS 7789-43-7, appears on the CERCLA list separately.

For each CERCLA chemical category (other than metal compounds) from the section 307(a) of Clean Water Act, the individual chemicals that are part of the category that appear in this Appendix, were taken from Reference 6, where EPA had listed 126 specific substances as "priority toxic pollutants ."

Arsenic and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains arsenic as part of that chemical's infrastructure (5).

Arsenic Compounds (inorganic including arsine) (7).

Antimony and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains antimony as part of that chemical's infrastructure (5).

For antimony and compounds, the term *compounds* shall include organic and inorganic compounds (8).

Beryllium and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains beryllium as part of that chemical's infrastructure (5).

Cadmium and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains cadmium as part of that chemical's infrastructure (5).

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Chromium and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains chromium as part of that chemical's infrastructure (5).

Chlorinated Benzenes (2)

Chlorobenzene	(6)
1,2-dichlorobenzene	(6)
1,3-dichlorobenzene	(6)
1,4-dichlorobenzene	(6)
1,2,4-trichlorobenzene	(6)
Hexachlorobenzene	(6)

Chlorinated Ethanes (2)

Chloroethane	(6)
l,l-dichloroethane	(6)
1,2-dichloroethane	(6)
l,l,l-trichloroethane	(6)
1,1,2-trichloroethane	(6)
1,1,2,2-tetrachloroethane	(6)
Hexachloroethane	(6)

Chlorinated Phenols (2)

2-chlorophenol	(6)
2,4-dichlorophenol	(6)
2,4,6-trichlorophenol	(6)
Parametachlorocresol (4-chloro-3-methyl phenol)	(6)

Chloroalkyl Ethers (2)

Bis(2-chloroethoxy)methane	(6)
Bis(2-chloroethyl) ether	(6)
2-chloroethyl vinyl ether (mixed)	(6)

Cobalt and Compounds (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains cobalt as part of that chemical's infrastructure (5).

Coke Oven Emissions (3)

Copper and Compounds (2)

Creosote (4)

RCRA Toxic hazardous waste code U051 40 CFR 261.33 (f)

Creosote, as defined by the American Wood Preservers Association, is a distillate derived from coal tar, derived by the high temperature carbonization of bituminous coal. Creosote consists

primarily of liquid, solid polycyclic aromatic hydrocarbons (PAHs), other heteronuclear aromatic substances, and some tar acids and bases. Creosote Oil (Common Name) has the following active ingredients:

Coal Tar	CAS Number 8007-45-2
Creosote Oil	CAS Number 61789-28-4
Coal Tar Creosote	CAS No. 8001-58-9

Currently there are thirteen creosote industrial wood preservative products registered as pesticides with USEPA under FIFRA. All have "creosote" as part of the product name. (14)

Cyanides (2), (3)

Cyanide and Compounds (2), (3)

X'CN where X = H' or any other group where a formal dissociation may occur. For example KCN or $Ca(CN)_2$. (9)

Cyanides (soluble salts and complexes, not otherwise specified) P030 Haz. Waste (4)

DDT and Metabolites (2)

4,4-DDT	(6)
4.4-DDE (p,p-DDX)	(6)
4,4-DDD (p,p-TDE)	(6)

DDT means the compounds DDT, DDD, and DDE as identified by the chemical names:(DDT)-1,1,1-trichloro-2,2-bis(p-chlorophenyl) ethane and some o,p′-isomers; (DDD) or (TDE)-1,1-dichloro-2,2-bis(p-chlorophenyl) ethane and some o,p′-isomers; (DDE)-1,1-dichloro-2,2-bis(p-chlorophenyl) ethylene. (10)

Dichlorobenzidine (2)

3,3-dichlorobenzidine	(6)

Diphenylhydrazine (2)

1,1-diphenylhydrazine	(6)

Endosulfan and Metabolites (2)

Alpha-endosulfan	(6)
Beta-endosulfan	(6)
Endosulfan sulfate	(6)

Endrin and metabolites (2)

Endrin	(6)
Endrin aldehyde	(6)

Endrin means the compound endrin as identified by the chemical name 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo-5,8-endodimethanonaphthalene. (10)

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Fine Mineral Fibers (3)

Includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less (9).

Glycol Ethers (3)

Glycol ethers include mono- and di-ethers of ethylene glycol, diethylene glycol, and triethylene glycol R-($OCH_2CH_2)_n$-OR′. Where:

n = 1, 2, or 3;
R = alkyl C7 or less; or
R = phenyl or alkyl substituted phenyl;
R′= H or alkyl C7 or less; or
OR′ consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate. (11)

The substance ethylene glycol monobutyl ether (EGBE,2-Butoxyethanol) (CAS Number 111–76–2) is deleted from the list of hazardous air pollutants established by 42 U.S.C. 7412(b)(1)[Section 112(b)(1) of CAA]. (12)

Haloethers (2)

4-chlorophenyl phenyl ether (6)
2-bromophenyl phenyl ether (6)
Bis(2-chloroisopropyl) ether (6)

Haloethers (other than those listed elsewhere; includes chlorophenylphenyl ethers, bromophenylphenyl ether, bis(dichloroisopropyl) ether, bis-(chloroethoxy) methane and polychlorinated diphenyl ethers) (13).

Halomethanes (2)

Methylene chloride (dichloromethane)	(6)
Methyl chloride (chloromethane)	(6)
Methyl Bromide (bromomethane)	(6)
Bromoform (tribromomethane)	(6)
Dichlorobromomethane	(6)
Chlorodibromomethane	(6)

Halomethanes (other than those listed elsewhere; includes methylene chloride, methylchloride, methylbromide, bromoform, dichlorobromomethane (13).

Heptachlor and Metabolites (2)

Heptachlor (6)
Heptachlor epoxide (BHC-hexachlorocyclohexane) (6)

Lead and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains lead as part of that chemical's infrastructure (5).

Manganese and Compounds (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains manganese as part of that chemical's infrastructure (5).

Mercury and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains mercury as part of that chemical's infrastructure (5).

Nickel and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains nickel as part of that chemical's infrastructure (5).

Nitrosamines (2)

N-nitrosodimethylamine	(6)
N-nitrosodiphenylamine	(6)
N-nitrosodi-n-propylamine	(6)

Nitrophenols (other than chlorinated) (2)

2-nitrophenol	(6)
4-nitrophenol	(6)
2,4-dinitrophenol	(6)
4.6-dinitro-o-cresol (4.6-dinitro-2-methylphenol)	(6)
Pentachlorophenol	(6)
Phenol	(6)
2,4-dimethylphenol	(6)

Nitrophenols (including 2,4-dinitrophenol, dinitrocresol) (13).

Phthalate Esters (2)

Bis(2-ethylhexyl)phthalate	(6)
Butyl benzyl phthalate	(6)
Di-N-butyl phthalate	(6)
Di-n-octyl phthalate	(6)
Diethyl phthalate	(6)
Dimethyl phthalate	(6)

Polychlorinated Biphenyls (PCBs) (1),(2),(3)

PCB-1242 (Arochlor 1242)	(6)
PCB-1254 (Arochlor 1254)	(6)
PCB-1221 (Arochlor 1221)	(6)
PCB-1232 (Arochlor 1232)	(6)
PCB-1248 (Arochlor 1248)	(6)
PCB-1260 (Arochlor 1260)	(6)

PCB-1016 (Arochlor 1016) (6)

Polychlorinated Biphenyls (PCBs) means a mixture of compounds composed of the biphenyl molecule which has been chlorinated to varying degrees (10).

Polycyclic Organic Matter (3)

Includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100 º C (9).

Polynuclear Aromatic Hydrocarbons (PAHs) (2)

Acenaphthene (6)
1,2-benzanthracene (benzo(a) anthracene) (6)
Benzo(a)pyrene (3,4-benzo-pyrene) (6)
3,4-benzofluoranthene (benzo(b) fluoranthene) (6)
11,12-benzofluoranthene (benzo(k) fluoranthene) (6)
Chrysene (6)
Acenaphthalene (6)
Anthracene (6)
1,12-benzoperylene (benzo (ghi) perylene) (6)
Fluorene (6)
Fluoranthene (6)
Phenanthrene (6)
1,2,5,6-bibenzanthracene (dibenzo(ah) anthracene) (6)
Indeno (1,2,3-cd) pyrene (2,3-o-phenylene pyrene) (6)
Pyrene (6)

Polynuclear aromatic hydrocarbons (including benzanthracenes, benzopyrenes, benzofluoranthene, chrysenes, dibenz-anthracenes, and indenopyrenes) (13).

Radionuclides (3) See Appendix B in this document.

A type of atom which spontaneously undergoes radioactive decay (9).

Selenium and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains selenium as part of that chemical's infrastructure (5).

Silver and Compounds (2), (3)

Unless otherwise specified, this listing is defined as including any unique chemical substance that contains silver as part of that chemical's infrastructure (5).

Thallium and Compounds (2)

Zinc and Compounds (2)

APPENDIX E
CERCLA Hazardous Substances- Chemical Categories

Statutory Code	Statutory Source	Applicable CFR citation
(1)	Section 311(b)(2) of the Clean Water Act	Hazardous Substances 40 CFR 116.4
(2)	Section 307(a) of the Clean Water Act	Priority Toxic Pollutants 40 CFR 401.15
(3)	Section 112 of the Clean Air Act	Hazardous Air Pollutants List- Section 112(b)(1) of CAA Revisions to List 40 CFR 60.60-63
(4)	Section 3001 of RCRA	Hazardous Wastes 40 CFR 261.33(e) and (f) ("P" and "U" Haz. Waste chemicals)

References:

(5) 42 U.S.C. 7412(b)(1)-[Section 112(b)(1) of CAA] "NOTE" after the Initial List of Pollutants: *For all listings above which contain the word "compounds" ... the following applies: Unless otherwise specified, these listings are defined as including any unique chemical substance that contains the named chemical (i.e., antimony, arsenic, etc.) as part of that chemical's infrastructure.*

(6) USEPA. 1994. Water Quality Standards Handbook, Second Edition, Appendix P- List of 126 CWA Section 307(a) Priority Toxic Pollutants.
http://water.epa.gov/scitech/swguidance/standards/handbook/

(7) 42 U.S.C. 7412(b)(1)-[Section 112(b)(1) of CAA] Initial List of Pollutants.

(8) 40 CFR 401.15 footnote 2 (for antimony and compounds only).

(9) 42 U.S.C. 7412(b)(1)-[Section 112(b)(1) of CAA] Footnotes after Initial List of Pollutants.

(10) 40 CFR 129.4 Toxic Pollutants .

(11) 40 CFR 63.62 Redefinition of glycol ethers.

(12) 40 CFR 63.63 Hazardous Air Pollutants.

(13) 40 CFR 401.15 Toxic Pollutants List.

(14) USEPA. Sept 2008. Reregistration Eligibility Decision for Creosote (Case 0139).
http://www.epa.gov/oppsrrd1/reregistration/REDs/creosote_red.pdf